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No 78/10

White Pine Groves

Present-Day Trees and the Giants of Eld
—Were They Another Variety?—

BY WINTHROP PACKARD

A TINY brown wing brushed my cheek this morning, lifting madly southward, and the wings of the November gale. It was a belated one of many that have scattered from the pine tops this autumn, for it was the single wing of a white pine seed and the cone harvest has been good. Ever since August the squirrels have known this and the stripped spindles lie by the score under the big pasture pines where these have left them after eating the seeds. It seems much work for small pay for the squirrel. He must climb venturesomely to the very tip of the almost horizontal cone, hover from its hold, then run down the tree and gnaw it to pieces for the tiny seeds within. So light are these seeds, wing and all, that it takes twenty to thirty thousand of them to weigh a pound and it is probably fortunate that squirrels do not live by pine seed alone. However the gnawing means as much to the squirrel as the eating, for the squirrel's teeth grow constantly and he must continually wear them off or he dies, stabbed by his own incisors which grow in the arc of a circle. Yet the squirrel is adept at getting at the tiny, toothsome seed and he can strip a cone of its scales far faster than I can, even if I use my knife. He holds the cone stem and upward in his forepaws which are so like hands, severs the base of the scale with his ivory shears and then, with his sharp teeth, he pulls the scale close under the very bottom of the scale, almost before you can see him do it.

Certain wise naturalists assure us that the squirrel does not use reason in this handling of the cone, merely acting automatically. Indeed, in this respect he gets his results in the shortest time and with the least effort. "No highest reasoning could teach him no more and his instinct is such a splendid short cut to the solution of problems it is a pity that it is not added to our common school course. The squirrel, they say, does it because he and his ancestors have done it in the same way for untold generations, the automatic impulse being born in him and bound to appear at the right moment, just as his teeth grow without his own volition. Yet, I am sure, he has been a time when the first squirrel came up on a limb with his first pine cone in his paws. Did he reason out the way to get those seeds or did he know instinctively? And if so what is instinct in his case?

For all the squirrels got so many cones that in some places in the woods the ground is fairly carpeted with the brown scales which they severed, prompted by this clever whatever-it-is that is such an excellent substitute for wisdom, there are plenty still left on the tree. They hang from the branch tips, their scales gaping and the seeds for the most part gone. Left to themselves they have been flying away ever since September, a few at a time on dry, windy days when their single wings would send them farthest. One might imagine, indeed, whatever it is to the pine tree too, she works so methodically for the preservation of her species. A year ago last spring the mother pine put forth the beginnings of these pine cones that now show as brown, pointed tips on the green ground, useless except as kindling for my campfire. Then they were wo golden-green buds of pistillate flowers, set high on the uppermost branch tips that the pollen from the tree's own staminate blooms and male cones would be blown down the wind and thus avoid inbreeding. If they miss fertilization altogether they fall off. It is commonly said that the pines produce a crop of cones once in five or seven years, which is true in part, since the statement that they average waves at sea is larger than any of its preceding six is occasionally borne out by the facts. I do not recall years in which the pines have failed to put forth both staminate and pistillate blossoms. Some times from a single tree I have seen a hundred cones. Sometimes a long rain will prevent the pollen from being disseminated by the wind until its time is passed and again there is a failure in cones. Only once in a while is the season perfectly favorable, and then we get that rain or wave in pine country. The squirrel rejects that they can file their teeth and fill their cheek pouches at the same time. The years when there are no cones at all sending forth their seeds in September are few indeed. This year the harvest in my neighborhood has been an excellent one.

The fertilized bloom soon ceases to be a little Christmas candle on the tree top, closes its tiny scales over its growing seeds and becomes a little green cone, ever sitting upright on the upper branch tip where it grew. By autumn it is rich and a half long, the short peduncle which attaches it to the branch has lengthened and thickened, but is not able to hold it wholly erect, so much has it gained in weight. At that season the young cone and its fellows have tipped their natal or even become slightly pendulous. Thus it remains through the winter, its scales pressed close to its core and to one another, defending the tender seeds from all cold and making a seemingly solid trunk of the whole. Toward spring I have known squirrels to attack these

young cones, but rarely, and I am not sure whether it was because of the pressure of hunger or whether some young squirrel's instinct to sharpen his teeth on them made him a bit precocious. However, it can be done, being gnawed again very early in the spring. You will have its way, and in this case it seems to seize on the first sap that gets as far as the topmost branch tips, compelling it to the nourishing of the young cones. It can be so done, but the making of new leaves or even of the crop of staminate and pistillate blossoms for the ensuing summer. The cones add a quarter of an inch to their length before the blossoms of that year appear, and their weight sags them still more on the stem, making them distinctly pendulous. By the last of August these greedy feeders have not only ripened the seeds within the still close-pressed scales, but have multiplied their own length by four, become to six inches long and hanging pretty nearly straight down by their weight.

Their work is done then. Fifty or more scales has each cone, a hundred or more seeds, if the fertilization has been perfect, are ripe and ready to go on their way. The cones begin to fall early September the sap begins to flow from these ripe cones, the scales lose their green plumpness and begin to dry and curl back toward the base of the cone. This gives the seed eating birds, the flickers, the pine grosbeaks and especially the crossbills, their opportunity and they eagerly pluck out the seeds as the narrow openings will give them a chance at. Between these and the squirrels the pine forests of the north are decimated before their seeds have been planted. Nature provides bountifully for the reproduction of all her favorites, yet far more bountifully in some instances than in others. A thousand young birches spring from a seed, to one pine in one Massachusetts wood, and no wonder. Each birch tree ripens a thousand seeds to one that comes to maturity in the great cones of the pine. Yet there are compensations for the pine tree. Barring axes and accidents it may live a hundred century and yearly give more and more comfort and inspiration to mankind as it increases in dignity and beauty. The birch may give comfort and inspiration too through its grace and beauty, but it is lucky if it lasts out a score of years.

It is often a surprise to me to see how far a seed will fly with but one wing. The air currents set it spinning the moment it leaves its parent tree making of it at once a tiny gyroscope with a single blade steadily at the wheel and the wind always tends to lift its weight. Hence with a downward current it falls with a less velocity than the wind which whirled it. In a level breeze it often holds its own, while in the upward slanting wind it is carried high, which flow so often along and away from the earth, and it rises easily. The stronger the wind the more the faster whirl of that tiny propeller tends to keep it in air and with a good September gale thrashing seed out its way is a pine tree may be planting it and for miles to leeward. Hence that brushed my cheek this morning made no such offering. Caught in a back eddy it whirled round a sunny glade for a moment, then in a sudden lull spun directly downward to the grass. There was a number of such a favored seed. The grass spear stopped its spin and it divided plummet-like out of sight, the tiny propeller becoming a tail that kept it held downward while it slipped most cannily to the ground. There I found it still in such a position that, if movement, every pressure would carry it down out of sight of all seed eating creatures where it might rest and ripen till spring when it would be ready to germinate.

Searching the pine grove and the scrubby country that outlies it, I found all stages of pine growth, from the gnarled patriarch four feet in diameter at the butt to the germinating seedling. The patriarch is nearly a hundred feet tall, and I know not the exact height of his height. I have found none of quite his diameter, and I am very sure none of his age, hereabouts. His age I can but guess, yet I know that fifty years ago he was as large as he is now. I do not know how much wood in him, for he has no limbs that then were green and flourishing and six to eight inches in diameter have since decayed and fallen away. Recently a pine was felled in Pennsylvania 155 feet tall and 42 inches through at the base, a fine specimen of his ground. This tree was 351 years old. I have reason to believe my patriarch is as old as that one. His height is not so great, but he has three trunks instead of one, springing from that gnarled butt a number of feet above the ground. There are occasional trees like this one still standing in eastern Massachusetts. They have seen their children and grandchildren grow to marketable size and fall before the woodchopper's axe. They have seen one or two generations of hardwood grow between these cuts, yet they still are allowed to remain. In cutting off wood it used to be the custom of our forefathers to leave here and there a particularly gnarled and difficult piece that the seed might furnish a number of seedlings for generations. Hence these occasional trees. I am wrong, but I have an idea that my patriarch was growing right where he stands, a young and vigorous sapling, when quaint old Josselyn wrote about those two voyages to New England in

the early years of the seventeenth century.

Josselyn gives us to understand that the wood of the white pine is that mentioned in the Scriptures as gopher wood out of which was built the ark. Certainly if the white pine of Josselyn's day was abundant in the neighborhood of Ararat in Noah's time he could have done no better. The wood is light, soft, close and straight grained. You may search the world for one more easily worked or more generally useful material. Indeed, his last half-century has seen the good white pine of the world pretty nearly used up, certainly all the best of it, for wood-working purposes. Fifty years ago it was the cheapest New England wood, today it is the highest-priced, and the old-time clear pine, free from knots and snags, is almost impossible to obtain at any price. For all the forestry we can bring into play it will take more than three centuries to grow for us such trees as were common in Maine and New Hampshire. The white pine and white pines were not rare in Maine six feet in diameter and 240 feet high. In 1780 near the Merrimac River above Dunstable in New Hampshire a pine was cut, straight and sound and having a diameter at the butt of 240 inches. Half a thousand years were none too many to grow such a pine as that. Could a man have a few of these on his farm anywhere in New England today they would be worth more than any other crop the centuries could have raised for him.

The youngest pine seedling grows so securely in the pasture grass and under the low bushes that rarely does one notice them during the first summer's growth. By the end of that time they are singularly, to my mind, like fairy palm trees, with their green leaves like the little folk stroll and dance in the nights. Their single stem and the spreading whorl of leaves at the summit of it are in about the same proportion as those of a palmetto whose great leaves have been tossed and shredded by the trade winds. That is why the palms come, in the passage of centuries even, a 200-foot tree seems difficult to believe. It looks no more likely than that the "ground-pine" which is taller than the seedling and fully as sturdy should measure 200 feet tall. Yet the ground-pine may grow from its seedling stock for a thousand years in the shade or one grove and never be over a root tall. Thus easily may we be deceived by small beginnings. No palm ever rivalled a full-grown pine in height and girth, and yet a palm cone is as big as a pine cone in diameter of trunk and with as abundant a leafage as it will ever have.

Watching seedling pines grow year by year it is difficult to see how the great, clean, trunked, old-time pines that towered over the forest were built up from four to six feet in diameter came about. The free growing pasture pine makes a round headed shrub, for the first ten years or so of its life, with abundant long limbs, and is clad in profuse foliage from top to bottom. Even as decades pass its limbs still continue to grow and though there is abundant wood in the half century old pasture pine it is of little use for lumber, for the limbs, young and old, have filled its trunk with knots. Yet our present day trees have seeds in this way and for many years considerable space it is difficult to see the trees grow old they grow taller, each struggling to outdo its neighbors and get more light and air. Lower limbs decay in time and in the progress of forty or fifty years get a "second growth" pine which is really limbless for a height of forty or fifty feet. Of the trees another half century if you like the many groves that have had that and still more. These, though fairly bare, show the knots where the limbs have been and produce anything but clear lumber. It may be that by giving these century-old groves another century or two we should have something like the old groves of Maine, but I am not so sure about it. I see no promise of it in the conditions under which pines grow today. Even my patriarch, though he has, I am very sure, sufficient years to his credit would cut up into only a medium quality of box boards; there is no clear lumber in him.

To produce the wonder trees of the early half of the nineteenth century the tiny seeds must have rooted plentifully in rich soil, the trees must have grown so close together as to steadily and persistently crowd out the weaker and shorter, and in the passing of two, three or four centuries we had remaining the magnificent trees, the "wreath" two hundred or more feet in height, their trunks without limb or knot for more than half that distance. Such conditions may account for these enormous trees, yet I am inclined to think that they do not. I am inclined to believe that in the early half of the nineteenth century of Pinus strobus which was very closely allied to our smaller trees, but which was not the same, just as the Sequoia gigantea of the higher Sierras is a gigantic variety of redwood, closely allied to but not the same as the Sequoia sempervirens, which flourishes nearer the coast and in the lower levels. That would easily explain why our pines, which we call "second growth," show little tendency to become such majestic or so long lived trees as the giants of a century or more ago. It is a pity, for it is a pity, too, for it is probable that in destroying the last one we destroyed a variety of pine that was far nobler than any left.

10

Mrs. L. Brück
Care Mrs. Francis Shippen
Landing
New Jersey

13 July 1904

Massapog Pond Sept 2 1904

Club Trip to Brimfield ~~7c~~
May 21. 1902

5

8074. I recently visited the old white oak on the south side of Ponkapog Pond. My measurement made it 15 feet 10 inches in diameter about five feet from the ground. The oak was in a healthy condition but sadly in need of attention particularly in clearing away the undergrowth that is choking it. From its wide spread and low height I should judge it originally grew in a clearing and not in the forest, and as it must be six or eight hundred years old its early history would be interesting. Can any of your readers tell me if it has any history? It should be given attention, and preserved for its size if for no other reason. 7 Aug 1909. E. R. J.

1900

Katahdin Trip.

July 4.

J.R. Churchill & I left Boston 9.45 PM Monday evening July 2^d & arr Bangor at 5; left at 6 in same sleeping car & arr Milo Junction at 7.35; changed cars and arr Staceyville at 9.35. Mr. ^{L.B.}~~E.S.~~ Rogers met us with Tote wagon, seats on springs, and a plat-form deck for baggage: a second Tote team took our Trunks as we rode with Mr & Mrs Rogers & their 5 year old girl Ruth: at a mile or half from Depot we unhitched horses, & had dinner in gypsy style, hot steak & tea & various cakes & a potato salad: we were by the ruins of an old saw mill on a pretty stream: from this point Mr Churchill & I walked the 7 miles in to the Ferry or Lempers House on the ~~West~~ ^{East} Branch of the Penobscot or Matagamon River as some call it. The walk was a beautiful one, woods all the way, hard wood ridges, we noticed only one small patch of Spruce wood not more than 100 rods, on the whole road: tho so fine a road to walk it was a rough one for Teams: the soil is clayey & the roadway is cut into it with side walls of a foot or more in height, these make a channel

vide Appalachia
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Mt Katahdin
Lat. 45° 53' 40" Long 68° 54' 51"

for the running water of which there was plenty, but the walls are of so stiff clay that a tolerable foot path is often to be had on the very edge of the little wall. For the last two miles a gradually increasing rain came on, but I had my umbrella & C. his rubber coat. The S. House at the old Hunt place we called at & waited there till the Teams came along: they had to come thro' the Hunt clearing but not very near, tho' within sight of the windows of the House. Here were a man & a boy keeping house & waiting for the sportsmen to visit them.

The last mile is by the River bank but I saw little fish on acc of rain. We collected very little tho' J. H. C. at the lunch place found good *Ranunculus septentrionalis* and *Sium Virginianum*. We are in the Hotel abt $\frac{1}{8}$ of a mile from the farm house: we sleep & live here & go to our meals at the farm house. Last night was cloudy & still & myriads of fire flies gave us our Fourth of July Celebration.

July 9.

In camp. So Basin Mt Katahdin.

July 4th Churchill & I passed very quickly exploring abt near the house & enjoying the fine view of Mt Katahdin. In the evening he went out in Canoe for the first time in his life & with Mr Rogers & his little girl they all saw a moose wading in the meadow grass at mouth of Lewis Brook half mile fr ferry. July 5th we packed in morning back to the McLaughlin house & back & we waited for the others, E. F. Williams, Fernald & J. Collins who came at 4 pm & were astonished at the terrible state of the road. A big gang of lumbermen came too so that Mrs Rogers had 25 men to get breakfast for next morning; ~~and~~ ^{and} that we did not get off quite as early as we expected, however at 8.30 we were crossing in the Ferry Boat swinging by wire & in a few moments more were plunging into the holes of the road, deeper & softer than the one we came over from Staceyville; we lunched at Rogers Camp 10 miles, from this point on most of the wood had been cut & burned & it was a scene of desolation, not until very near Bell Camp 11 miles further did road enough appear to give

any rest to the wearied eye. We walked the 3 miles from City Camp to Bell Camp and it was wonderful that horses could take any load over such a road. Bell Camp is at the end of the Lake Road & we camped here, using our blankets on the floor of the camp. Fernald caught a few trout on the stream & below the dam.

July 7

We arose early & started for McLeod's camp, Mr Rogers on horseback, the guides along side the jumpers loaded with our stuff ~~which~~ to which were hitched two horses driven by Peter the French Canadian; we walked the 3 miles most of it on a smooth grassy road by the river. We had just reached McLeod's and were arranging for our six mile walk up the trail into the Basin, when the clouds broke & a thunder shower came down, so we had a lunch of fried pork, tea &c & then as the clouds lifted a bit, Rogers & Peter took their way home with the horses & we started on our walk.

The rain came before we had made two miles & we continued our tramp through beautiful mossy woods,

out on craggy places where in some
mountain fog & by rocky edges of
a mountain where boulders are
large - difficult to climb. - The
woods were more beautiful than any
I remember. I was with the high
party & guides with Collins reached
camp at 11 A.M. The others came
for 3-4 to 5 minutes after. We
could not see what we were in
clouds & rain.

Sunday
8 July.

The rain kept us at home, but Collins
& I went about the little boat
& up a bit towards a snow patch. We
can see three patches of snow on the
ice in lakes. A very heavy shower of
rain in P.M. gave us some beautiful
cascades on the cliffs. The rain

1 July
Monday

made our journey more for shoes &
the Collins, H. & Churchill went off
for all day towards the saddle. E. & I
staying more near water only to the little
lake where I got out 30 minutes for
wood & to the camp which is rather
thick. The rain came gradually just as we
sublimed but the rain soon cleared.
The rain went again to the base & I
went Collins to the lake & it rained hard
in P.M.

10 July
Tuesday

We all started up the Mt. to the Table Land at least: first by the bed of the Brook behind camp & when we hit the slide follow that. Rogers when he saw the slide said it was new to him & must have come down within two years & almost exactly in the track of the old trail: the rain now began to fall & heavy clouds & fog obscured everything but we kept on up to the base of some cliffs in the "saddle" near the Table Land & here the cold winds poured over in chilly fashion. We looked & waited but saw no evidence of change in the day so came back home, & it rained practically all the afternoon & no sign of clouds leaving the Mt. even when we went to bed.

11 July
Wednesday

But on waking at 4 awoke the sunsets were clearly outlined & we decided to go up. Left camp at 6.10 & could not help wondering & straying on the Table land, to see the many charming views of lakes & mts. Chisimkood & Saurdeamuk & Moosehead & Chamberlin & Rainbow & West Branch Quia water showing the foaming falls,

woods & forests everywhere. On arrival
at top we took photos & had lunch.
Then Rogers with Fernald & Collins ~~went~~
to the ~~old~~ Peak - by the ~~crest~~ to the
Chimney & old Parnole & home down
the E. slope of Parnole; while we ~~waited~~
them at intervals & continued our work
of collecting on the N. E. slope: we
soon found plenty of *Aspidopanax* ~~stolon~~
var. comosa under the large boulders
in wet places, & I found many
Sierana *mel.* *Elongatum* &
Conostemon boreale & *Pogonatum*.
It soon began to rain, shutting out the
landscape & we ~~headed~~ for home
coming down the slide & the ~~brook~~.
Arr about 4 o'clock & Rogers ~~stayed~~
at 5. Rained all the evening.

12 July
Thursday

A very heavy thunder shower in the
night & a ledgehog trying to burrow
under Chimney's bed kept some of
us awake, but we had breakfast
at 6. Rogers, Fernald & Collins set
out for North Basin by Trail & we
staid at home to arrange & dig
up plants. The sun is shining on
the Camp now at 11 AM but the
top of the Mt is all cloud.
The rain poured down all the afternoon
& the Bakerist. to North Basin came

13 July
Friday

Home at 5 o'clock & reported *Arctostaphylos*
alpina in fruit as plenty over all
the floor of the No Basin.

We all went by spotted mail into
the North Basin & found the view
Eastward very beautiful & the
Basin entirely different from
this. It is higher altitude &
almost devoid of trees with big rocks
all over it, a little pond in the
middle of lower part of basin &
scrub spruce to go over or cut
way through. We found plenty
of *Arctostaphylos* altho the rain
came down incessantly. Donald
& Churchill & Rogers wait clear up to
the base of the ledges & slides at end
of basin where we could see a
miniature Snow Arch tho I have
no doubt it was big enough if
we had approached. There rises a
steep cliff of gray Zoof on the N. side
of basin with up toward head of the
basin against which the guides
fired their revolvers for the echo.
We came out & proceeded
homewards fortunately not
having a shower en route, while
Donald Churchill & Rogers

stair along time at end of the Basin
& got many good plants, but all
the time in vain which was
terrible after we reached home.
"Be there Collins E & W & I came
back with the guide Corser.

14 July
Saturday

Formal took Rogers & went again
to the North Basin to finish work
on the ledges & slides. Here while
we staid at home & took a can
& yesterday collecting. Pollis
I do not find so great variety in
these woods as we expected. Altho
there is an enormous lot of moss
the species are *Hypnum splendens*
& *Schreberi* & various *Dicranum*
these make up the bulk of what
we see. Tree mosses are very
scarce & we have seen no *Usnea*
or *Cladonia*. We got a *Sphagnum*
on Caribou tamarisks up the Big slide
& another on dung in the woods.
both different ones. Not much
rain has fallen today as yet. 1.30
pm but it is cloudy & dull & there
have been a few showers this am
Formal & Rogers came home & Ben guide
fired out. They had a
No Basin but found

nothing newer than yesterday. They ascended to the North Peak & back again down the ravine slopes, & came home in a driving rain storm well wet through.

Sunday
July 10

Sun rose into a clear blue sky & we welcomed the long lost fair weather, but we had no trip on hand today for the men have to make two journeys to M. Had's camp to get our stuff down for going home. They left at 6 am & I took several photos the weather was so fine. Kussey the Cook snapped the interior of the camp with all fur by the fire & I took the mountain from the lake which way turn out better than yesterday I took there. Collins has showed me much abt the mountains.

10.50 am and continued pleasant until evening. A young porcupine remained all day long in a tree top near camp & at 5 P.M. came slowly down in spite of our attempts to keep him up the tree. As we did not wish to injure him, he scuttled off

under a brush trap we heard him
in the evening examining the tinware
of our kitchen. The men made
their two journeys down but did
not return in the evening, so we
sat in the lean-to with Hussey
enjoying the fire and star light
making it the only real camp
night we had had. Emile today
swept the camp floor and in
other ways demonstrated his
housekeeping capacity which
has thus far been submerged in
the rain storms.

Monday July 16. The men came back at 7.30
+ we had long been ready for
them with bags all packed &
trapped. at 8.15 we started
down weather line we stopped
a while to botanize at 3rd Pond
where Tomala found what he
thought was *Phlox* *Crawii*.
Collier & I. with Emerson & Howard
kept on to McLeads came where
we reached at 12 in the ever-
increasing blackness of a thunder
storm. It rained as soon as
we were fairly landed, so the
rest of the party came in

very wet. We had a brush -
set out for Bell Camp by the
Lumber road in a gentle rain
which with the wet shrubbery
dampened us well before we
arrived. The horses pulled
the sled load across the
river after the men had
shut down the gates to lessen
the water and altho our
backs were not really wet
by the stream several of them
were slightly moistened inside
from divers causes.

Memo: Have slips or pieces
plaster or canvas. Sewed to
bags for the men to put straps
through if the bag is to be
carried. Thus when the

litter lines
represent the
straps the
men affix to
the bags for
carrying.



A lumber camp is a poor place
 in summer & I did not sleep
 very well, sharing my berth
 with E. T. W. & looking out into
 the dark caucous of the camp.
 L. B. Rogers came with Team from
 Patten arr. at 7, and the
 new passenger, E. S. Rogers,
 brought his lots of trout say
 a dozen for us to eat so
 that trout Omelette & cold bread
 made our supper & breakfast
 next morning.

Tuesday
 July 17

Doubtful weather at 4.15 A.
 turning into rain by 5.30. We
 got started & all hands worked
 3 miles to City Camp, & soon
 after began to ride the rain
 heavy & good deal lessened
 tho' skill in evidence. We
 reached Pokans (pronounced)
 at 11 & had lunch, where the
 Beef soup capsules came in
 well soaked in boiling water.
 We rode to Dairy Dam, over
 the road which has been well
 characterized as the road where
 you ride for exercise and
 walk for pleasure.

Here E. J. Rogers & Brown got into a
skiff & we watched them pole
down among the rocks of the
Massachusetts on their way to
take the skiff round to the
Terry Landing which they
reached before we did.

Collins & I struck to the Terry
all the way out from this point
after reaching the crest of the
hill the heaviest rain of the
whole trip struck us & continued
all the way to the Terry. We
overtaken Williams & Churchill &
Fernald who had gone ahead
waiting in the rain by the side
of an impassable swamp in the
lowlands by the river & where the
horses finally waded in & then
the water was far above the
hubs & just touching the
floor boards of our wagon,
but we lived through it.
We reached Terry at last
through & stripped at two
hot fires & began our
usual drying process of
clothes & camp.

Wednesday
July 18 - Fernald had to reach Boston as
quick as possible so he started
with Peter as driver at 10 am
for the afternoon train. While
the rest of us spent the day in
getting plant & clothes in some
kind of bag shape. It did
not rain till the afternoon & Peter
reported that Fernald reached the
ER station all dry. A fine
thunder shower with us gave
a wild sky & fine view across
the River.

Thursday
July 19 - Up at 4.15, breakfast at 5.0
at 5.30 we were off for Hay-
ville, bright day, N.W. wind
white clouds hiding the top of
Katahdin, fading into gray &
darkness later. The road
out was good, the water
filled it like a brook, the
mills were deeper in one
place we barely escaped going
over. Rogers advised to "get
your left under your arm
& sit down upon it" barely
saved us, the floaking
cordway road was a
struggle for the horses.

into a trial tour, but we reached
the Shamville station before
7. Am. C. F. W. & Collier took
the 9.30 North for Van Buren
Churchill & I the 9.56 for
Boston. Mattie met me
at Biddeford at 6.20 Pm. -
Churchill reached Boston at 9 Pm.

Friday

July 26

Clear fine day wind East.
Left Biddeford at 4.18 Pm. for Boston

1977

13

July 29
Thursday

Came to Whiteford Pool with L. R. Woods.
Did nothing Botanical till Saturday
the 28th when in AM I explored sand
fields & marshy land betw. Beach &
Pool. *Spartina striata*, & *Juncus*
communis on the sandy black grass
land. found another the 3rd patch of
Arenaria peploides. Plu drove with
NWK to Hills Beach off the Steamboat
landing, & remained on a slaty
bluff some time waiting for Rick
who did not come. Took some
photos of river at low tide.

1900

agavequit

Aug 24

Went yesterday to stay over night
with Capt. K. Kinsley. Left Biddleford
7.15 am with party. Made camp
in a field of young agave plants
about 10 H. and then with Capt. Kinsley
went down to the river. Found at the
mouth of the river a large number of
Stardis pedicularis. Then we
went to Agavequit. It is six miles
by trail to half mile back to top.
Several Pinos near Maister's farm,
a good grove of rough barked &
white barked trees. Pinos were
plenty at our place. There
were also several Pinos. When
the storm we reached on the bridge to
Humboldt & walked in the pine woods
& climbing up back to the top.
Capt. Kinsley with Anthonys, Kenneth
Spink, Gentianum Linensis, Eucalyptus
the overhanging, Lewis pleurocarpa,
Eucalyptus undulata.
PM we drove back to Wells for the
3.30 train to Biddleford.

- 1900
 Nov 5. Walden Vt. and Danville Vt.
 left Boston with ad. Dodge at 11 am
 arr Danville at 4.45
 Nov 6. walked abt & around the town.
 beautiful Indian summer day.
 counted 12 spec. still in flower.
 Also the curious bulbous rooted
 Violet *Selkirkii*.
 Nov 7. walked to Walden depot &
 found curious branched *Polytrichum*
 by the roadside close to Walden
 village on the way to the depot.
Pogonatum ussingerum P. B. Allen
 Nov 8. to Bradford Vt & called on Miss
 Bacon & on to Whitefield Vt
 & at Dodges.

Nov 9. cold snowy day & also the 10th
 came home Monday Nov 12th
 In flower at Danville Vt Nov 6. 1900 the loc.

<i>Ranunculus acris</i>	<i>Solidago canadensis</i>
<i>Solidago nemoralis</i>	<i>Chrysanthemum leucanthemum</i>
<i>Trifolium pratense</i>	<i>Capsella bursa-pastoris</i>
<i>Cerastium</i>	<i>Tagetes virginiana</i>
<i>Laguna</i>	<i>Achillea millefolium</i>
<i>Oenothera purpurea</i>	<i>Taraxacum dens. folios.</i>

1901

Jan 6
Sunday.

Went with the children to the new
pond at Hosi's Wharfed Club made
by flooding the meadow. Walked
out around the pond & up the brook
on the ice. Came back to Club House
by woods & paths behind the Bank House.
On stone in brook *Euradon didactylus*
& *Amphispiza* *varianus* the large
- *Urodon* form. Not to the open.

Flora

Marine 22. 1901.

2 - Williams, 2 - Rogers, 1 - S.K. I left
Boston Tuesday eve. Feb 19 at 7.45 &
arr Bangor at 4.10 Feb 20: left at
7 AM & arr Patten at 11.20. Ed. Rogers
on train at Hastyville & came to
Patten: Capt L B Rogers met us at
station & we got rooms at the
Palmer House: PM Capt Rogers
took us for a drive but the cold wind
from the snow about & we could
not see Katahdin or in fact any-
thing, so we stopped at Rogers
house & saw Mr R & Ruth - after
talking with Mr Palmer we decided to
come here & next morning Feb 21. Rogers
came to the river with a pair of horses &
sleigh & Palmer took our trunk, our iron
team & we came on 12 miles to Spauld
Shim Pond to Cooper's for dinner: here I
saw the Arctic snowbirds; the English
sparrows were flying in & out of a hole in
the Barn like Barn Swallows. After
dinner the 15° ice came 10 m. further to
this house & before sunset tracked a
mile further to a ^{secretly} ~~secretly~~ ^{secretly} camp &
saw the White winged crossbills making
the went to bed early & fine air made
up the wind to go on into the Feb.

Leaves to Chandler's farm, so I was
up early this morning & off with the men
at six o'clock. After breakfast at
7 we found to our surprise the ther-
mometer was 8 below zero. The snow-
~~was~~ lay up on the horse back ridge & the
Katabian was very, divinely seen. I took
Panorama views - Then we snowshoed
thru the woods by the roadside to the
recently decorated ~~woods~~. Saw Blue
jays, Canada jays, Goshawks & some I
knew not. PM we drove to
a ~~very~~ lake snowshoed trail & went
in abt a mile to the lake: the trail
was exactly like our Soundanahunk trail
of 38 years ago. Saw a Pileated Woodpecker
it showed a good deal of white in pluming -
got better today very plenty & fine
the lake is large & fine every winter.
Ther. today 16° above & at 9 PM 2° below

Feb 23
Saturday.

Ther at Sunrise 15° below zero: after
breakfast we drove for Trout Brook
Farm, going by or near Mud Pond
& stopping at Brauer's lumber camp
on a steep ridge below. Saw Trout
Lake. Here had a pair
snowshoes regg'd with a thin
in Soundanahunk style & liked it
much. We did not drive with

the crew for they were in the woods, but
had good meals, tea, gingerbread, doughnuts
& bread rolls - We drove
Grand Lake & across the East Trench
to Trout Brook house & staid a
half hour, driving home & came out
from 4 to 6 we walked about
the fields & up the horseback trail
Katahdin wh. was free
from clouds & we could see right
at Ponoia the Basin & Lake &
the North Table Land. a fine
sunset. Ther. 12° above at 6 P.M.

Sunday
Feb 24

Ther 5° above at sunrise & a fine snow
falling from a laden sky. & this has
kept up all day. Having spent some
time putting in our packed things in
my snow shoes we went out for two
hours in the woods & to the little camp.
after dinner and tea.

Monday
Feb 25

Katahdin showed out clear this early
morning & with Ther at 8 I went
up on the Horseback & took a Pan-
orama photo. Wh. I probably
should have spent my camera too
soon. We got away before the
Lake Train to Brown's Landing
camp came along & drove
back to Ponoia without stopping.

at Mesons or Skinn Ponds. The wind
was cold blowing across the
plains after leaving the woods.
Left at 12.30 & after dinner visited
the Photo. Exhibition. But he had
no news for sale. Having seen
them to the Spectatorium. Shaw & I
chatted a bit with Ed Gordon
a loyal Oregon man at the store
visiting Nat Cooper who it seems
was at work at Brown's Lumber
Camp when we called there.

Tuesday
26 Feb

Snowing quite hard when we
started to drive with Rogers to
the East Branch. Called on
John Carman at Skins & each
for bought a pair of his moccasins
which are warm & with a
much sweeter meat than mine.
In the woods betw. Hazelton & the
East Branch the trail soon stopped
we camped the men. Found at
dinner time about 1000 lbs.
Kadish's Shaw & Mother Ed Rogers
+ each got at the house. Mr. Shaw
is a Boston Highland (Black) artist
drawing them over the winter. He
told skaters on the walls &
altogether the place was quiet.

found it. Still the snowshoes up
the tunnel - Tatten Road a mile &
up some woods. The ~~Western~~
Hudson the most pleasant was the
best. Took one half. Photo.

7th Feb
28 Feb

Up early & back up the tunnel
to find the Rock. The above seen
from: In a hill just the side
of the tunnel a magnificent view
of Kananaskis appears & took my
first Kananaskis photo there.

Beyond the tunnel we went along
the sloping hillside to the bridge
& saw by a road cut out of the
deep drifts to edge of river. Went
on to a point about a mile
past at point of leaving the river
again. Found a little like

Rock with drooping or rather con-
cave branches. We took specimens
of things & some old fruit & a small
portion of Birch. We drove back

again to Kananaskis at noon. Took a
short drive to the camp in the overflowed
creek across the river & drove to Sheepville
by 2.30. Train came along at 3.40 & arrived.

Went to the lake at 5.30 & time just got
closer for Kananaskis are at 6.30 Feb 28th

April 12. Went out with Knox & Put, Gilbert's
 friends, to the ridge near the
 top of the mountain. The ridge is about 3,000 ft. & afterwards with
 the 44° rocks through Cascade
 and back of the house to the
 top of the mountain in cow pasture &
 up to the lower ridges.
 Saw several small hills. Road to town
 by road: got several small hills, saw
 some of the most luxuriantly growing
 Hyssopus on low in western hills.

April 13. Went out to the Falls Station
 in Malden & up the Cascade
 Rocks, getting what is perhaps
 a Shamrock & also on White Rock
 an Anemone, wh. I do not find
 recorded in any Middlesex list.
 Took photo of falls & then walked
 to the Virginia Falls & to Wynne's
 station. Had lunch by roadside
 in warm sunshine. Camp Pennings-
 house in sunny place. Wind
 East & Sun bright. Back 4.25
 at Wynne's.

1901

April 20
Saturday

Met Waddy of good name for a bottle
of P.M. which I gave him. He is a
wanderer selling willow tips
with the flowers in for malaria
& "the water". Apparently a talker
but with a pleasant face. He
goes about the country sleeping
always away from home if he can
- stopping at different places as
Franklin, Hamilton, Newton &
filling his basket with birds,
many flowers, or small animals.

12 May
Sunday

up the hills with the above. I took
the first Malabarite out of a place.

13 May

Collected in the hills

May 22

West Ossipee 5.10. Fine view at house.
Am walked up lakeside to James house
P.M. to the top of Washington Hill: visited
the Page House. Ther 85° at 2 PM.

May 23.

Am drove to Tannworth & round the
Kinnear's place & down a beautiful wood
road. Bright sunny day.

May 24

Left Am train at 11.50. Left at
12.48 train for Infernale: had carriage
to Pindexter Mansion & good dinner.
They thought there was a storm or snow
fall, & I took my overcoat with me.
The west side of highway while driving
down between the hills but being
the northern border & across the
ferry then to the border. We left
on 3.17 train & went to the North in
train - we. Lancaster at 5.35.

May 25
Saturday.

Report at Lancaster. We. Report at
Lancaster. We. Report at Lancaster.
The hotel excellent - in every way.
Went to walk to the top of a hill
beyond the river. Good section. Got
a fine view of the whole. We. We left
at 12.20 & changed cars at the
junction & then Litchfield to the
junction at 2.15. Visited
the Museum of Nat. History.

Left at 10:00 AM. Just before 11:12
George with the car & his dog came
back as with the car in the front
beautiful afternoon we have been
in long time.

Friday
May 26.

Very fine day. with dead up foot
chills. George & I spent
all past hour. at my past
advice made it 8. The house
to rest - in the Swampy wood-
lands. Elmore is clean, &
beautiful very nice under the
usual things. For Parker, Mrs.
Richardson's brother with me about
at the West Lake house and
Lancaster.

Monday
May 27

Rising in AM. but I packed up a
+ beyond Romney Brook. *Scirpus*
+ *Phragmites communis* is reddish but
perhaps *ascipifolia*. This is the lake
side + road. Could not find *Cyp.*
aristatus. Much *Encalypta*
in good form + I have always
thought this was the best finding.
It rains hard all the time. Has cut
two brown banks in the river -
fact for lower to lake: one 30 ft. long
+ it deep + to it rising the other
30 x 4 + 15 feet wide.

Hill count in Poplar River valley -
 small hill, mostly, or occasionally
 but not much like *Salix* in size.
 Being thick forest - with small
 trees, & all leaves deciduous. Also
Kalmia glauca - the leaves of the
 fl. branches are more than the
 leaves very dense - some leaves
 beautiful yellow light in the
 sun - plate after sunset - the
 small flowers with white / 2000 ft.
 some to 3-5 ft. - on the
 uppermost mountain tops.

May 20
 Tuesday

Clearing in sun but I walked the 100
 path to Purple Rock. Forest only
 one yellow *Opuntia* which has
 just come out the 70. But *Op-*
untia *Carolinensis* and *Florida* - also the
 little *Opuntia* - also *Opuntia*
Missouriensis. *Opuntia* *Missouriensis* is
 a fine flower at Purple Rock. The
Opuntia *Missouriensis* is fine white - pinkish -
 has been partly the whole one has been
 here before in former years. Forest
 fine white flowers - *Opuntia* *Missouriensis* -
 a beautiful woodpecker.
 Rancho land all the upper part of
 the river & very plain.

1901

May 29
Monday

Very cloudy, cold, but no rain. Went to
 Ave to the Four Bridges. One big rock
 by roadside near Big Boulder also
 on wet rocks in bog by the Stingers
 forest much touching *Fraxinus* &
 on a sparsely some at base. This bog
 forest a very small specimen of
prob. F. incurrens or some of the
 group of little ones. Searched
 in bog for *Smilacina trifolia*
 but in vain. Big Bishop's
 brook higher up forest as before
 the *Avena striata* but the glumes
 had more nerves than the manual
 gives - the lower 3 - upper 7.
 The *Actinostichum* near Big
 Boulder is all staminate. Forest
 trees sometimes in buds late in
 the afternoon rock taller than the
 bare stalk from the 2 snowbanks.
 They are fast disappearing. On path
 found a Ribes which I took for
 var *subglaberrimum* but the berries
 & pedicels are glandular bristly & the
 calyx tubular bell shaped & smooth.
 The shrubs were not reclined but strongly
 erect often bush 2 1/2 to 3 ft high -
 the one or two ft. masses drooping
 - the prostrate to each flower open

through the heavy rain above the mill race
which reaches the division below the
greatly common bed of the great
individual ones. It is then impossible

Thursday
30 May

We worked with me & along the
road of former *Pyrola asarifolia* getting on.
PM we went to Montreal, down
to station with John W. Titcomb & St.
John's Fish Commissioner & also Dr.
Ross. The express stopped for us at 4.30
& we got at PM at 9.15. The ride
from New Port to Richford through
the Hill country is very fine. Rooms
at the Windsor directly up the River
River Road.

Friday
31 May

Raining at intervals all day. &
went down river to the Square Mont.
Then we went to 60 St Luke St &
saw the whole family for Mrs. Aitchison
down. Every, Jessie, & John & Paul
called on us at Hotel C.

Saturday
1 June

Left Montreal 7 AM & saw the
from Dominion Bridge we crossed at
Dawson's Mill. First break at
1.45 & home 3.30. The flower in the
lake & meadows at New Port is Buck-
Beam. I went down to Mack
Point before supper & got
the same

1914
Thurs. Jan 23. A flower & is covered
by big boulders Salix balsamifera
a new station for it.

Friday
Jan 2

Wrote the Old Brookport house
in the rain at Cherry Park. In the woods
below Cherry, we got *Diarrhoea Canadensis*
in fruit. The view to Trip Cables
view & in pasture *Potentilla fruticosa*
you saw fine Salix leaves fruit

Monday
Jan 3

Wrote and up to Roaring Brook &
beyond. Collected mostly at beyond
Roaring Brook. Snowdrift is path
to take numerous ft by a new
foot ramp. Got several *Antennaria*
large standing. *Antennaria*
was a lot of them. *Antennaria*
1. *Antennaria* *Antennaria*
seen found some *Potamogeton*
in the stream. *Antennaria* & *Antennaria*

on the beach at lake. Ther. at
Lake shore 44° at 4 P.M. Day
cloudy & with a very few drops of
rain, but heavy rain at 6 A.M.

Tuesday
Jan 4.

The snow still persists in the woods by
the lake & the lake & the day is cool -
with North wind. I went to the lake
shore this morning & got some *Urtica*
Potamogeton and on the *Potamogeton*
extending to the *Potamogeton*

Viola Schkiskii in bud.
This is new to the region. Got also
very handsome *Viola Schkiskii* in
a wet place by the Bog in fine
flower. While that in the pasture
has not have flowered - month ago.
Cypripedium in flower.

Ph. went down thro the woods to Mares Pond
came home speeding on ice of a timber
snow. Found close by the Skinner's
entrance to Mares Pond a remarkable
Coralorhiza with three equal similar
petals, each with two ridges on it,
while *C. imbricata* has ridges only
on the lip. It had a very upright
spike of flowers & under each flower
a very widest bract as long as the
ovary, altogether very diff. from
imbricata. The three petals were
quite white & very alternate with
the yellow sepals made a small
"lily" looking flower with the Orchidaceous
column in the centre. I found two
of these plants about two inches apart
but found only one small coral like
root very deep in the black wet earth.
After the rain was over went down
the Lake Road & brought home
some *C. imbricata* for comparison.

the color & glow of the woods road
in the afternoon light - with every
leaf dripping water was a fine sight.
The snow-bank still remains under
the Cedars. Then this evening 50°

Wednesday
5 June

Beautiful Summer Day, growing quite
warm in P.M. The Snow Bank had
entirely disappeared at 8.30 P.M.
Went in A.M. with Alex to Marl Point
the woods below looking for *Corallorhiza*
similar to the one got yesterday.
Found several interesting plants
one with basal bract more than
a mile long - one with bracts to
each flower, the bracts being as
long as the ovary & twice as wide.
One with almost erect capsules,
several in bud, but none
with the 4 or 5 similar petals
projecting. Went to the the spring
shown by the wet cow path to
frozen brook & pasture off house.
Very fine *Exp. rubicundus* in the
woods below Marl Point. P.M.
we all drove to Green Tunnel: the
hunting was somewhat marred as
a lumber road had been made
through it & in some places the
logs & brush had not been removed.

very common in the Rio Grande valley. The
leaves are small. We dug some. Most
I have seen some like this. Curious.
Took soil. fl. spec. of Conchagua, Sonora.
insect had hurt the foliage. fls.
Hers. R. it seems has' call. the
ordinary Compositae about the Witch Hags.
Humboldt, but not know Hamamelis
Curious looking. between the canyons. fls.
Fls. in woods at foot of mt.
coming out at Picnic House.
P.M. we drove to outlet of lake.
very hot. Then to a mill riv.
Hemlock here. on roadside
along Roaring Brook & next house.
with a willow first beyond house.
Melrose, one or two willows
on Lake shore. The Vinca still
flourishes in swamp at end of lake.
Bought two lunge at first house.
Took a dozen photos. one of
Roaring Brook & another of the
hemlock here in the cutting area.
Lake still warm every with a
number of flowers in the northern
slope. The leaves forming large trees
here are yellow at the edges, giving
the tree a sacred look quite
unlike the dark green of the
Lake. The woods at the foot of the

Flowering
June 10.

On examining them I find the end of
the leaf thin & hollow and of a
yellow papery like texture with
a hole on the upper side of each
leaf where apparently the insect
has made his exit after having been
incubated in the leaf. The part
of the leaf left unattacked is green
& healthy & with a clear cut line
of demarcation between the healthy
& hollow portions. This insect lays
eggs in almost infinite number
& a patiently persistent mother
to deposit an egg in each leaf.

Friday
June 7th

Last evening was thundery and dark
as pitch tho' hardly any rain fell.
This morning foggy warm 65° &
cloudy but scarcely a drop of
rain. I raked up for the *Rovula*
incarnata found one blossom
set on one spine. Got a lot
of *Tridax* deepening on soft back
near Pierre's. Picked a *Sambucus*
with a flower stalk 24 inches long
& gathered *Penycnia* & *Linum purpureum*
showing the base of the *Penycnia* as a
white substance as long as the body
of the *Penycnia*. Rained all pm.
Left Will at 7 & arrived at Lancaster 11:45
Drove to Page farm & then to the bridge

Pierre's
Lat.

Blue Hill.

June 14

Went up Blue Hill & down the south side this pm expecting to find *Liparis liliifolia* but did not. Brought back two *Carices* near *Conoidea* or *tetanea* that are new to me. Saw the *Asclepias quadrifolia* in fine flower & various *Panicums*. Very warm muggy afternoon. *Carex grisea* was one pth above the other a large var *patulifolia* glauca.

Williamstown & Greylock Mt.

June 15 Left Boston 1st with Mr. Rant,
Williams, Judge Churchill family.
On the train also Mr. Miss E. G. Hoyt.
Arr. Williamstown at 5.20. The
great roomy station is in front of the
Lumbering house. The station is
at the foot of the mountain. The station has
a large hall & a small room for
baggage.

June 16
Sunday. A very beautiful day & we had
leaves & after calling for Mr. May.
Andrews in the village we drove up
in the Stoppel to the pasture
then crossed to the summit of the
mountain. On the right where we
were at first we got into a very
fine field. It was a very beautiful
walk, & on arrival at the Perry
at Campney place the path through
the ~~woods~~ of trees is to the left rather
than the right & follows the brook a
piece: here are several bypaths there
& a chance of going astray there. We
halted at a brook on the Pittsfield
Road & then kept the road to the
summit. Two carriage roads go
to the top, one to Pittsfield & one to
North Adams. The former is con-
siderably new & consequently

RADIUM AT WILLIAMSTOWN

Nov 23 1913

GAS FOUND IN SAND SPRINGS

"GOOD MEDICINE" OF THE INDIANS

And of the White Man, Too, Found to
Be Due to the Properties of
Radium

The discovery of radium in the waters of Sand springs at Williamstown, widely known because of their medicinal properties, made early in the summer, has been followed by examination and study by scientists, who have determined beyond any doubt that radium exists in the spring, though to what extent it is a difficult matter to ascertain. Prof. J. E. Shrader and Assistant Prof. Brainerd Mears of the faculty of Williams college have been examining the waters frequently for the past few months and each time have found radium beyond question. The springs from which this radium gas has been taken are located on the north side of the campus of Williams college. They are owned by Dr. S. L. Lloyd, who has built there a sanitarium and large bathhouses, and they are used by the community for a bathing and summer resort.

As far back as the springs he been known in history there have been stories of their wonderful healing properties. The present owner came into their possession in 1894. He was then a practicing physician in Williamstown and realized that the water of the springs had some peculiar properties. He began to study the various diseases and rheumatic troubles. He bought the property of Foster E. Swift, a well-known hotel man of North Adams, and began to develop its development. In 1895 he built a sanitarium, intending to develop the springs solely for their medicinal property. This was soon found that there were added large bathing facilities until now the springs are widely known as a health resort. The water contains healing properties always gave the doctor a bit of trouble because he was never able to determine what the water was good for. He then showed that it was almost pure, the largest amount of mineral salts ever found in a gallon was six grains and was of any practical medical value.

At a practical demonstration, a chemist expressed the opinion that the healing properties of the water were due to the presence of radium rather than to any mineral salts. The positiveness of the chemist led the doctor to place the water before Prof. Shrader and Assistant Prof. Sears. Prof. Shrader says that he had never existed. He explained the method of examination and said that whenever any gases had been obtained from the spring they always showed radium. The water was bubbled up and was closely confined, and the examination made as soon as they could be taken to the laboratory. He said that it cannot be, Prof. Shrader says, of any commercial value, except by the springs themselves. It is impossible to confine radium, or the water, for the reason that it has been confined being four days.

As far back as the days of the Indians these springs were known as medicinal springs. The old Mohawk trail passed not far from them, and the Indians stopped there every time they passed. Mason Walker, who died six or eight years ago at the age of 97, lived within a stone's throw of the springs for 81 years, and remembered when a man named Pitkin, of the Mohawk land office, came to the springs with the water as a healer. Aaron Smedley, a member of a family of Williams-town settlers, as early as 1762 told of the value of the waters, according to the records of the Williams college. He said Dr. A. L. Perry of Williams college. More than 100 years ago there was a bath house at the springs, for in 1826 an old paper published in Williams, N. Y., said that the water cured the baths and the healing water of the spring.

The spring was then owned by a man named West. For a time the property was allowed to go down, but during this time the springs were visited every year by regular visitors, among whom was the well-known Springfield hotel man, the late Tilly Haynes, who was enthusiastic over them. The kind of cures effected by the water, the various ailments cured, such as skin diseases and rheumatism, and several instances are cited where they have succeeded when physicians have failed. The water is obtained from a well, and after as a table water, and is making from it a ginger ale and soda, building up a considerable business in this line. No great attention having been paid to the water, and the fame of the springs, the water the past summer came largely from the curiosity of Dr Lloyd and the interest of Prof Shrader and Assistant Prof Nichols in the possibility that radium ex-

we found little to collect. On reaching
 the top we went to the top of the
 story from Observatory for the view.
 The day was very fine but hazy
 at a distance. The Catskills were
 dimly seen also Roundbush what
 we called ascentary. We found
 Ambrosia oligocarpa on top, but
 no characteristic northern vegetation.
 26 people were on the summit besides
 our party of five. We walked
 down the North Abner road to the
 Fall house $5\frac{2}{3}$ miles above the
 guide post. Arrived at seven o'clock
 at the Fall house. The view in
 the last two miles of the road was
 extremely beautiful. In the
 woods we found many good
 things: *Mitella diphylla*, many
Botrychium spp. *Sium* and
Matricariaefolium, *Hydrophyllum*
Virginicum. I collected only a
 few mosses, *Polypodium alpinum*,

1901

June 17
Monday

We walked to the house along the pasture
edges & "slopy" banks of the Fernald
Road & up that across the line into
Vermont; there is a beautiful cold
brook with fine bounding rocks supply-
ing this a water trough on the east
near the line. The wet clay banks
gave good collecting. *Carex laxa*,
Speranthus latifolia, and some
most beautiful specimens of
Cyperidium spectabile of which
we all took a supply. The
Carex laxa was infected by
a disease which made the perigynia
smaller than usual length. *Carex*
terrestris & *Schmidtii*, & fine
granulosa & *polychaetoides*.

Viburnum cassinoides & *Cornus coccinea*.
For we were at it work on our plants.

June 18.

Got up at 4 to take the 5 o'clock Ex-
press train to Boston, but it was 3 hours
late & we took the 7.10, & arr in Boston
at 12.40.

Friday
June 2

Spent the day at North Scituate
with Edith. Got fertile flowers
of *Africa cynaroides*.

1901
July 4.

The family all being at Biddford
Pool, A. D. Hodge Jr. & E. F. Williams
spent the 4th here: a pleasant-
summer day & however much
extreme heat the past week.
We walked up Blue Hill &
down the other side & home by
Wildcat Notch. On the top a
very narrow leaved *Populus arbutifolia*,
Carex prisca in patches
on south side - a young painted
Liparis latifolia.

July 12

Left Boston 7 PM with A. D. Hodges: could have left at 9.45 & changed at Bangor or Ellsworth for our Train, arr at East Machias at 9.55 AM a

July 13

Saturday.

very pretty village. with rather hilly shore. We got leave fr. Sanborn's Hotel & drove 12 miles to Cutler: part of the way thro' woods & again with views of the tidal river or bay. Arr Cutler at 12.50. The Cutler House kept by Mrs. Goochusen looks down the fjord like bay to the ocean. The white spruce abounds here & the fir & spruce all have fine young cones. After dinner we walked down the road & thro' woods to the ocean at entrance to Little River or "the Harbor" as here called.

got *Vacc. vitis idaea*, *Empetrum*, *Rhinanthus*, *Euphrasia*, fine large *Ranunculus septentrionalis* sending out rooting runners from the nodes, *Erigeron maritimus* on the cliffs at entrance to the harbor, & a large *Orthocentrus* on old spruce trees at shore, *Microchaete baccata*, various canes, *Eriophorum alpinum* & a very glaucous *Plantago* at shore

I never saw so blue a *Plantago* & the ordinary maritime grass rather further in shore. A very brilliant summer day with West wind, Ther 62° at 6 P.M. & 60° at 8 P.M.

Sunday
July 14.

Day rather warmer than yesterday, Ther 75° at 2 P.M. but a fine breeze all day. Ther at 6 P.M. 67°. A.D. & I walked down the Cove road to Corbett's Point. Met Mr Corbett. He took us to a green-shaded spring on the banks of the Harbor, just above the tide: it looks like a cool lot of rain, or a high tide. But tastes sweet & fresh & never boiled, all last summer during the worst season ever known on the coast of Maine. In fact Mr Corbett found it last summer by noticing that tho' the machine spring was quite dry his cows never appeared to need water when they came to the spring. The forest followed him one day to the back in the woods: there were few water bugs, & apparently none, mosquitoes in it. The rock appears porous & there are other different size pools. Some 12 x 4 inches wide, only one of them hot to the touch.

I got today *Lonicera caerulea* on the
dry rocks & an *Arctostaphylos* - perhaps
perhaps, and a *Salix Russellii*
with perfectly smooth, fleshy leaves
& minute flowers, in fact the whole
plant less than two inches, this on
the rocks by Combett Spring in a desert
spot as if from leakage of spring.
With it also these plants *Empetrum*.
Also got the Iris with short bluish
pale flowers at Salinas & one
with glaucous leaves & a very long
slender spat with head, the ordinary
iris grows here too. Found in
a bush *Amelanchier alnifolia*
or what species like it, & then
two curious cacti, also *Juniperus*
Sabina var *laevigata* as well as *Urtica*
alba & *Compositae*. Took some of the
them - from the fringe of the hotel as
it's forbidden to carry the cactus
while we were out. Then arranged
my plants & we visited a college
near by that is so new.

July 15 ~~Monday~~ Day very warm, 42° at 2nd but cool
enough when out of the sun as a breeze
S.W. west wind blew all day. We walked
to Demunston's Point & had dinner at Mrs.
Demunston's house 25 cents each: Here
we could see Old Man Island with a
colony of Sea Gulls on it & Wash Island
and part of Cross Island with the Beacon
pole of the Life Saving Station on high
bare ledge of rock. Just below the
Demunston farm house the sea beach is
rocks & large stones & the bank is a
wet clay with springy places & shades
of small area. I hoped to find some
rare things but did not. After
dinner we walked back to school house
& explored the sphagnum bog near by:
Empetrum, the two cranberries, *Carex*
Magellanica & *crinita*, *Coriaria*,
Ledum latifolium, *Rhodora* & *Lonicera*
caerulea, *Kalmia glauca* & *angustifolia*,
on wet bank by roadside *Tussilago*;
The spruce woods are very dark &
dense when you enter them, & the
fir balsams here comes when not
over 15 ft high, also the white &
black spruces. The evening at
the Hotel was also quite warm.

1901

July 16
Tuesday.

We walked on the Dubuc Road about a mile but being out of the wind & in the hot sun we turned back & took point path under the Spruces & visited the Tin mine near the shore; the shaft with deep water in it & a big pile of refuse & the roadway thro the woods are what is left of it. I did not hear when it was worked. We came home to dinner & having telephoned to Sanborn's Hotel at East Machias he sent over Buckboard with same driver (Cummings) who brought us down and at 3 PM we said Good bye to Mr Grothuesen & came by the "Back way" by Gardner Lake a very fine 15 or 20 m long pond to the village & had tea at Sanborn's Tavern. We had heard at Custer that Gardner's Hotel in East Machias was the better one, (it certainly is better situated for air & view & perhaps for families would be better) but we had an excellent clean & good supper & got the 6.47 train for Calais; arr at 8.15 & found the town; the Hotel St Croix Exchange, & our two rooms

extremely hot as the day had been a
scorching 97°, but after opening
windows we cooled off somewhat.

July 17.

We left by Boat at 7.30 & went
to St. Andrews & by Bus to the
Algonquin Hotel: this place we
found hot & still and we did
not walk about any for the roads
are far off & all about are open
fields & cultivated land. So after
a lunch at 12.30 we drove to the
Boat landing & took boat at 2.30
back, and at Calais at 4.30 - we
took 6.30 train for Exeter & arrived
at 8.24. Stopped at the Graddy
House. Ther 63°. we walked
about the streets before bed time,
watching also the people come
to the P.O. for the evening mail.

July 18.

Much fog in the morning which
suddenly lifted at 9.30 & we took
the 10 o'clock Boat Lube for Campo-
bello which looked very beautiful
a mile & quarter away. We
visited the Hotel. Tim & co. & called
on Mr. & Mrs. Halls. Then walked
to the Hotel again for a not very
good lunch (75c) & took 12.30
Boat (Lube) again for Lube

back to Eastport at 4.30. A heavy fog at Lubec prevented us seeing southwards down the strait, slow patches of fog being over the water. Campobello is a very pretty place & the views must be fine. Ther 62° at 4.40 when we reached the Eastport Hotel. There is a small Public Library building here, The Peasey Library. We went up to the top where stands the water tower hoping for an extensive view, but it began to rain just as we reached the summit & we returned soon: the showers continued in the evening.

July 19
Friday. Left Eastport 7.33 by RR for Bangor & arr at Biddeford 6.24. Day fresh & bright.

July 20
Saturday Day rather muggy & warm. PM Capt Fletcher took us in Buck boat & for drive to old deserted farm in woods & home by Fortune's Rocks.

July 21
Sunday Warm & muggy. Did not go out all day. Reading Prof. Geo. on Pleading from the do Testament which with Bishop Columbus took at Pentateuch whi I brought with me gave me a new idea of the Hebrew Scriptures.

July 22 Warm day with brisk West wind.
Ther 88° in the p.m. & 94 at the Life S. Station.
P.M. walked with A.D. but not far.

July 23 P.M. we drove in Buckboard over the
red house & home by Fortum. Reels.

July 24 at home all day.

July 25 at home all day.

July 26 Sinclair came from camping above
Moosehead at 3 P.M. while Hattie,
W.H. & Ma I had driven to K. port.

July 27 I walked to the point in A.M. & on
Saturday the rocks there formed pools of fresh
water similar to those at Cutler.
of various sizes and depth, & in all
of them even when close to others
brackish & salt pools the water was
fresh & good. P.M. went again to the
pools & tested temp 75° F. & took all
the water out & it did not freeze up at
all; but another similar pool was
actually due in the course of operation
from a new by spring: the whole
band has a number of these or lost
conduct springs & they appear in
a variety of conditions.

July 28 A heavy East Rain storm all day.

July 29 Sinclair & Hattie left at noon. P.M.
Monday with Ma & the kids by setting
beach. Sinclair & Hattie at home.

and a different form of *Berberis* marine
fr. tree at Eastern Point growing low in
clefts of the ledges & not in marsh soil.
Liparis loeselii in very small at the
old station near bath houses, also
Nabumana laevis.

Aug 15
Thursday
Scituate

with Sinclair & D. H. to Scituate. I. K.
got off at 10:30 & took train to Scituate.
We kept on to Egypt station & then took
the Road to the Beach; explored a small
part of place in garden on right hand
side of road & got two specimens &
a very young *Alchornea latifolia*.
We turned in to Ocean Ave. looking at
the Beach & on top of hill got
famous acorn seeds & going on over
the hill saw on the right before us
a small point on side of which was
built with various structures on hill
climb, got up again & discovered the
small sandy patch. Went South
Beach & on going past houses on
climb. Mountain. Went up to
hill, saw a lot of old wood & small
mossy plants in it: got *Lycopodium*
in places by the roadside. Took 5:20
train home.

1901

53

Sunday
18 Aug

worked with U.S. to Randolph Turpin
back by the Reservation Road exception
turned off by right hand path leave
out on Randolph Turpin opp Fathom
Spring, a very good bruckey place.
Got a very few things.

Sat
31 Aug

with M.K. to Bidefords Pool on
12.30. M.A.D. & H.K. to Marble-
head at 12.40 & on yacht Foam
to the Pool with the Keene,
Miss Diverman: They are on
Tuesday morning Sept 3, having
been compelled by bad weather
to stay in Gloucester Harbor
over Sunday. Wednesday Sept
4 M.K. & I came from the 1st
to Gray's Inn Jackson N.H.
Fine evening when we arrived
with a much lighter Westinghouse
showing only clear. Encephalium
deworms, was the Sun

& going
down nearly to lower Bassett; the
day was very warm; Solidago
aquarosa by the roadside. We
took the Thorn Hill road back then
going by the Gray college, now
a private residence: we stopped

Here a few moments & the two ladies
showed us over the lower part of
the house while we viewed the
view & the two Lombardy poplars,
one each side of the road close to
the house: below on the left are the
houses of Dr Wigglesworth & the big
oak tree. On the other that
we decided to leave Jackson & get
the 3.45 for Whitefield & to bridge
Mr New House; two rooms vacated
today were given us.

Sept 6
Friday

Day very warm but Phillie & I
played our round of golf and in
pm Mr Kendall came over to see
how home made - took Mr Fisher
the chair, the dog & ran for the
mile drive, turned & looked at the
beautiful cloud effect of the drive.

Sept 7

Just as we got home news came
of the assassination of Pres McKinley.

Sept 7
Saturday
Sunday

Very warm day. We did nothing
but rest, called on Mr Kendall
early day. Prev wind then 42°.

Sept 8

Phillie & I started to walk &
seeing a sign Lancaster 5th decided
to go there to dinner: so walked
by Roundell's & back Hill Farm
from the road end of the

PM
Lancaster

into a large paper some 9 or 10 miles.
 Dined at the Lancaster House
 called on Mrs. Freeman a daughter
 of my grandfather born the year of the
 Valley slide 1826; I tried to find
 if she knew of the whereabouts or
 existence of the record books of
 the old House kept by her father,
 but she thinks they were burned
 in the fire: she told me that some
 the botanist had very small feet
 the smallest she ever saw on a man
 & easily got fixed on his mountain
 hips. She gave me the address of
 her older sister Mrs Wm Hayes
 cor Hancock & Pearl St, Stanham.
 We had carriage to bring us back
 fr. Lancaster & arr. home 4.30.

Monday
 Sept 9.

Went Dodge from N. Free to the station
 & we took 8.40 to the Hannuack at
 Jefferson. morning cold & smoky
 but we hoped it would clear. We
 left the Hannuack at 9.40 & arrived
 12 miles to the Ravine. No arriving
 at one o'clock. The smoky haze
 increased all the time & we could
 see nothing over 500 yards away.
 The mountains at all were
 N. E. that was seen to the

1897.

1901

side of the range I was much disappointed. We took 2.35 train back for Appalachia station & arr Whitefield 3.45. Mr Dodge meeting us with carriage.

Tuesday
Sept 10

We remained near the Hotel all day mostly playing Golf with Mr Gordon Turnbull.

Wed. Sept 11

Left Whitefield 9.08 & arr in Boston 5.30, being 45 m. late.

Bourne.

Sunday
15 Sept

Spent last night at Emily Williams with Fernald & we left by 7.38 train for Cataumet on the Cape. arr 9.20 & went to two small ponds & then to Flax Pond a beautiful sheet of water in the woods. On its shores *Hypericum adpressum* & another new *Hypericum*. Went to Wrentham Station via Dry Hill *Lepastemon sessilifolius*, *Diuris* & *Lepidog. argenteifolia*. It was a fine beautiful day with S.W. breeze blowing. We left at 4.57. Bk in 6.38 & took 7.19 to Readville.

Bideford N.H.

Sept 17 Came to the Post in a heavy rain
Sept 20 went with Capt Fletcher in the woods
relief of "Beckys" old home & got a few things
Sept 21 Hal came in from today over Sunday &
Sept 30 he & I went home on 9.30 am & mother
Ma & I came Wednesday Oct 2nd -

Camden Maine,

went to Camden on the evening of Oct 7th
- returned Monday Oct 14th.

Hemamelis in blossom: brought home
seeds of what appears to be *Pyrus*
pinnatifida, just by H. Landon: it was
growing on the Landon place: Saw also the
linear leaf willow on the Lake. It is
very much as a stone of mine with
apple like leaf, there were two very
vigorous trees.

1901

Oct 20
Sunday

with William Raced & Rich to
Winchester: visited water pond &
Round Pond & Top of New Pond Mt.
Got *Echeveria*, & *Hemiphaea*,
Scopus Hallii, & *Potamo-*
cladus arvensis; also small
Cassia vestitissima with *Stylis*,
offspring on same plant. At Round
Pond *Chamaecrista* *polytricha* & *Stylis*
fruticosa, *Stylis* *fruticosa*, but not
Stylis *fruticosa* I got in flower.

1901
Sunday
Dec 1.

Finalt came out a plant through all
my boxes from *echinata* 11/10 but
not the *echinata* group.

1902

June 11.

Walked down meadow & across to the
Hobbs' land in the Knappton River Basin.
The new leaf seeds had come out on the
Sambucus and the old pods of the
Lilium Canadense in the meadow
attracted my attention from the
short net work of fibres which
kept the cells from opening too wide
& effectually prevented the seeds from
escaping; the pods are upright
& the seeds must be ejected by the
wind lifting them from their hori-
zontal layers & blowing them out
at the open apex of the cell or pod.
Several pods had seeds in them,
but these were not laid in close
order as in the newly opened
capsule, but as if many winds
had tried to eject the seeds &
what were left were in confusion
in the bottom of the cells & might
perhaps never be lifted out. Above
place among the red cedars were
myriads of snow-flies on the six
nails or so of soft wood. They 30
they appeared to belong mostly in
this particular region of Red Cedars,
I were yet not fallen from the
trees, as none were on any

light colored felt hat as I walked
among the trees & none on the little
patches of soft snow clinging to the
trees; nor did any fall to the
ground when I shook the trees.
Also among them but in small
number was a four winged fly
7.5 mm long, proboscis two of 3.5 mm
long & two compound eyes 2.5 mm long.
Eight segments in the abdominal part
& a light colored fuscous band running
down the middle of the abdomen
with a dark fuscous band long radial
band each side. The snow flea is 6 mm
long over all, his two proboscis are .5 mm
making his body 1.5 mm. I did not
see any among the maple trees,
in the swamp, only at the place
where there are many red cedars.
They quickly sought the shelter
of my foot & marks in the snow
& were lying there in black heaps
almost as soon as my foot had
left the impression in the snow.

1902

61

Feb 1

Camden, Maine

Left Boston 1.15 yesterday with A.D.H. Is
arr. Rockland 8.35. Got two good boxes
19420 at Thorndike House: at 7.40
this morning to Camden by Electric car.
walked in Mrs J.C. McKay & then walked
up the road to top of Mt Battie, some
frozen snow on Mt Road but none
in the village streets. Good view tho
day soon became cloudy & cold.
On highway coming back got what
appear to be Hemlock with
youngest growth in buds to 4 ft.
sprinkled with bright yellow resinous
dots & a bunch of dried leaves at
ends of the branches. No other
spruce in any sort of place. P.M.
Mr Andrews took us for a short drive
left us at Rockport where we took
cars back to Camden.

Feb 2

Sunday. furious storm snow
drift rain & in the evening a good
strong thunder lightning storm. We
stayed in doors all day. I read in
Lullabys Colloquia Poema.

Feb 3

Left Rockland 8.25 - arr. Camden 9.40

6- 1902

Feb 12 To Carlisle Pines with Mr. J. Boston
10 AM Lowell 10.40 Left Lowell 11.25
Carlisle 11.43. Left Carlisle 2.16
Lowell 2.35. Left Lowell 3.03 via
Bedford Boston 4.20. Day
clear & bright Thu abt 20°. One
pine at least 100 feet high.

March 13 Day warm spring like Thu 55° at
Sunday 6.30 AM. Song sparrows about the
house. Blue Birds seen by Nat.
last Friday near Paul's Bridge.
The Acer dasycarpum at Roxbury
corner of Warren & Broadway st in South
Haven today & I never have seen
it so early before.

March 30 This remarkable March culminated
Sunday in a remarkable Easter Sunday.
P.M. Walked in Havenway place.
Saw 3 flocks field mice, leucisophis,
minks, cloaked alder, grasshoppers
water spiders, frogs & toad.

Day warm & pleasant.

April 2 Woke up Blue Hill with clear
Wednesday. Foxon & Alfred Rehder, got spec. of
the hybrid oak. Mrs. Rehder lives in
Rhodora for May 1901. Saw first
Peculiar flycatcher, the Pooche.

April 13
Sunday

E. F. Williams came out & we drove to corner Pleasant St & sent horse home, walked to Bloodroot place but found none, then along by woods & edge of brook to Green St again North of the new - Laurel Cabot place, then by Green St & Green Lodge Road to Fox Sparrow path & thence to Mr. Hemmings' land. Here found one flower of *Potentilla purpurea*, & *Equisetum arvense*. Then home thro' New. Can. to Hagerwood.

April 20
Sunday

E. F. Williams came out 8.15 train & we drove in Reservation to the Park place near Chickatawbut & by Bouncing Brook path across Never Freeze brook road to the back road of Brantree & thence by that road to the Res. road over Chickatawbut to Randolph Furukie & home by hill side St. Romeo Blue Hill. In a warm exposure on path near Never Freeze brook *Viola puberula* Smith in flower, also two large bushes of *Kalmia latifolia* near the brook, *Cary. umbellata* & *Pennsylvanica* large enough to pick on Chickatawbut & a beautiful *Viola blanda* in full flower and very very fragrant. Saw many flowers of *Paula. minor* in flower.

1902

May 11
Sunday

Drove with Ark over same route
in BKR as with E. F. W April 20.
Rumex crispata + *Viola pubescens*.
Got fruiting spec of the *Viola*
blanda on the Chickatawbut
roadside E. of the new place,
same place as with E. F. W April 20.
The red spots on the stem & large
buds make me put it with
oleophila of Greene tho. These
characters are not constant.
its very much mottled & striped
young wots are noticeable &
distinguish it from real *blanda*
of wet places.

1902

May 21

Entered 6.19: at ~~Sage~~ Smoky Place
station met Geo Proctor, Will Richards
with Munroe we took 7.04 train to
Warren: pair of horses, from George
Proctor drove us thro. Springfield to
Hollands, second team with two
men following took care of our
horses near the Smiths house.
pine grove: met the Munroe Res
mills drove on again over
Reservoirs Pond into the town of
Munroe in connection & back
again into the town of
Hollands & back to the house.

on the New London branch of the Central
 N.Y. R.R.: Took train for Palmer this
 morn in the R.R. restaurant, left 6.58
 at 7.04. Arrived 9.15. - abt
 30 miles drive. Saw the country at
 its best. It was the culminating
 day for a fine trip. Sunny,
 breezy, cloudless. Got beer & beer
 provisions & went to the museum
 but went too shyly on the
 road to collect.

Sunday
 25 May

A.M. with E. F. W. to Greenidge road &
 home thro Newbury land. Day - breezy
 & warm 78°. Did not find any
Staphylinus species which we went
 out to seek. *Chironia* in full flower.
 Damp & breezy day. Dr. Kyle here.

1902.

Cutler
Maine

July 1st 1902. Cutler, Maine. Fine day
with William, Francis & Collins.
Ran East Machine in the P.M. this
morning. In slightly rainy weather
from 10 A.M. to 1 P.M. we went to
the beach, where we found a number of
specimens. The weather was very
warm and the sun was shining
brightly. The tide was out and the
rocks were very dry. The water was
very clear and the sand was very
fine. The beach was very clean and
the rocks were very smooth. The
rocks were very dry and the water
was very clear. The sand was very
fine and the beach was very clean.

July 2nd

from the rain. Ther 54° at 3 P.M.
Up early 4.45 & changed dress & put
them in the bright sunshine. After
breakfast wandered to Mr. Hooker's
beach & found a few specimens and
on the little bluffs near by the hill
was blue with it so we got an
ample supply. Noted the peculiar
petal, short involucre reflex &
with an apiculate point or awn.
On the ^{marshy shore} beach by the bridge got
Stellaria humifusa & *Triglochin*
palustris. Found the large *Poa*
domestica near the Iris Beach
The Corbett thinks it has been
nourished by the old fish debris
from the lobster pots. It is very
much its vigorous growth.

Found two non-flowering specimens of *Agave nodosa* here & one of *Mertensia*:

Euphorbia Canadensis was plenty in the grass in little hollows of the bluffs. A very deep brown soil, rather stiffly spongy seems to be common on these rocky bluffs: The shore is certainly wildly rocky rough.

One spec. of *Taraxacum officinale* var. *palestinum* with remarkable scaly involucre found & named. He came home to two seeds & dried & put up plants in jar.

Highest Ther today 72° & 58° at 0.00. The wind blowing with very appearance of a hot summer day. Left Ridley at 5.30 & we drove behind a large framed good white horse 15 ft. old to Bay Brook on the other road.

On roadside *Botrychium simplex* - *metreacarpaleum* - *Virgiana* the very small ones: these in a grassy moist field to side of road: soon we came to a large patch 150-200 feet square of *Phlox paniculata* the finest patch perhaps in America. The name of the field is, it came there two years ago in a para or big

3 July
Thursday

68
37
Colony took photo of the field with no ants.
We had lunch on our at Bay Road -
It was well we did for the gathering
ants, brought their first drops down
& it rained hard all the afternoon. We
walked down the East side of the Brook
to the small beach & rough limestone
rocks at the sea shore. Got *Caecum*
viride very common, *Equisetum* (?
littorale) *Callitriche palustris*,
Alnus *maritima*, *Salix* *maritima*
near the river bank. We climbed
up the cliff to the grassy meadow
above. *Calamagrostis Canadensis*, &
struck for Home Pond in the rain.
I did not see the wall of stone, as
had been told was built by the
Normans. But the stone was
as rather a roadway of small
round stones different from the
cliff rocks near by. I suggested
it might be an artificial roadway to
take the hay loads down rather than
be shipped before the days of a
road inland between Esher & Chichester.
We found the heavy road out & followed
it further along & finally always in
open heath country & meadow &
on West side of Bay Road - as to
the Home Pond & Home Pond

1992

July 4
Friday

We walked by Bowley alley in Newport
 to Little Bogy Pond (Notel Pond).
Eriophorum gracile (the real) & also
var. pauciflorum. *Carex Magellanica*
limosa, then over the hill to the
 Mill road to pond & saw mill &
 followed the brook to the salt cove
 at Bridge & home by the road.
Stellaria lunifusa, *Carex maritima*
norvegica & a *Ranunculus* *Cyath.*
 joined in its roots to a *Galax*: this
Colletes photographed in the sun
 then I pressed it. A curious
 prostrate *Juncus* like *bufonius*.
 Also *Botrychium simplex*.
 We came home to lunch then the
 town which was well filled
 with people for the 4th July sports.
 Horse race, Antique & Noval process.
 & a Base Ball game between West
 Lubec & Cutler. The day was
 clear & fine, cool wind, Ther 74°
 pm we staid at home caring
 for plants & at sun down
 witnessed the "Blowing up of the
 Maine" a brilliant fire on
 a float in the harbor ending
 with a bomb report.

1902

to North Mountain, Alaska

July 5
Sat.

With the old white horse with Mrs. T. as Guide we drove 4 miles out on the Whiting Road to Narrows Mouth, a big sphagnum bog with scant growth of spruces & low bushes over it, abt 1/2 mile across. Here we found *Ranunculus acris* in young fruit & some few flowers. The peaty sphagnum was dry to walk over & my rubber boots were a burden. The plants were all buried in sphagnum & the *Saxifraga* looked green but vigorous in the soft bed. *Eupatorium* & *Vaccinium vitis-idaea*, *Scirpus caespitosus* & *Struthium trifolium*. We came back by 12 o'clock & after taking care of our plants & having dinner took row boat with Capt. Ackley to the Light House Island at entrance to harbor. *Sedum Rhodiola* was very plenty on the rocky ledges & in the little runway under the bridge to the light house to the Log Bell was *Montia* which resembles the *Urtica*, & all the New Desert Arctic Flora is new here. We also gathered 1300 *Euphorbia* *Russii* for distribution.

Left for Narrows Mouth at 10 o'clock. The weather was all overcast.

look several of the little *Plantago* were quite ripe. We came away at 5.30 after admiring the beauty of the shore & sea, & never saw its equal for a beautiful sea shore spot.

July 6
Sunday

Morning I walked in the woods back of hotel looking in vain for *Pyrola minor*. Mr & Mrs F. S. Collins came by 11 o'clock & we had an early dinner & all in two boats to the other shore & Western Head. There was more wind than yesterday & they soon landed me on the other shore & Williams & Fernald got off too & we walked the edge of shore & one place plunging thro dense spruce thicket. A small damp swamp at one place & just before the head which is an island at high water I got *Carex canescens* the real thing. The others all crossed the wet sland to the head but I had Capt Ackley's son in one of the boats pull me across the entrance to the harbor by the island to the other shore & I came home thro the woods & village. The others on their return had not added anything new to our list.

202/1902

July 7
Monday

Mr. H. Collins went to the store -
the rest of us struck for Long Point & after
passing last house two cedar swamps to
get to a high ledge of rocks, but the
path did not bring us out there -
afterwards Fernald went alone & we
came back home. He found *Betula*
cordifolia & *Lycop. arnot.* & *Asplen.*
We came home to dinner & the women
joined us: & then we made ready
for our departure. I have Fernald
& J. F. Collins to Machias & S. F. W. stay
a few days more at Cape. I drove
back to Gardiner the East Machias
where we had a most very good supper
& took train at 8.21. I reached
Boston 7.25 am. Home 8.57.

201 *Camden, Me.*

July 17.
1902
Thursday.

Left Boston 6.15 yesterday: arr. Camden
P.M. Had Mas + 7 A.B. + 1 true one
came to Camden by Trickey.

Today with Mas part way up the
Mt path. Noted a few things but
found the rocks + grass very slippery
for my boots. Came down to the lower
at base of Mt on east side. Got
some *Phlegmaria polyodonta* very
elegant specimens of *Viola rotundifolia*.
P.M. we all drove to the Gulf beach
on Caldey road. Are having heard
Cypripedium spectabile was there.
I found two good specimens of which
I took one. Also *Carex Magellana*
+ *Kneller*, + nearly *Chamaenerion* + a
few other things. On the Mt this AM
Aphyllon uniflorum.

Sept 18
Friday.

Left home at 6 AM with Mr. Andrews
to the Big Swamp by Gulf beach where
I was yesterday pm. Went across it
coming out beyond Mr. Lillis' house
till the telephone pole came +
branching off here + there. Several
good spec. of *Cyp. spectabile* the
most fine had gone by. Also
Petalites + a very large *Utricularia*
mollis. Got home at 11.30 +
am taking care of plants.

July 17
Sat.

sun showers in afternoon. Mrs. Parson came
" All in Row boat to return the Collier's call.
P.M. We all drove in two carriages to
Rockport & returned by Caldwell road. *Cam-*
panula alba, *Adlumia* *viridula*
Habenaria hyperborea, & what I
have called *Hesperis*, a much broken
large thick leaved crucifer.

July 20
Tuesday

Dull & often showery day. Walked a
short piece up the rut path in sun
but foggy rain sent us back.
Potentilla fruticosa. P.M. at
4.30 with Mr. I. to the river land
near wooden mill & crossing a
log bridge look south thro woods
to road was Iron factory. *Del-*
borbia repens. *Streptopus roseus*
& a beautiful wood lot.

Camden
Aug 7.

Came here by Boat - to Boston arr.
at 7 this AM. (P.M. took electric
to Rockport village & walked about
a mile down the Beauchamp Point
Road exploring the rocky woods where
I found *Adlumia* when here before.
got several things & pressed *Viola*
pubescens & a healthy leaved *Adiantum*
Emarginatum *fruticosa* *Penstemon* *bowlingii*
Polemonium & other nice *erythraea*
fine large *Solidago* *argentea* a three

1902

Aug 8

Went down the river to the mouth of the river
and collected a few things, *Epilobium*
strictum & *Nahen*. *Psychodes*.

Aug 9

Went down the river to the mouth of the river
at Lincolnville Beach & home by the
River. collected a few things, *Epilobium*
strictum & *Nahen*. *Psychodes*.

Aug 10
Sunday

Walked to the P.O. & in vacant lot
saw a dozen or more plants *Lactuca*
Scariola took one & as I do not
find it in record in any Maine list
shall collect more when it is in
better condition.

Aug 12

Went to the steamboat wharf & at
least got in little fresh water. I
got a *Scorpius* with long six
fingers the ordinary. All over
street & village two good *Juglans*
nigra trees in fine fruit, about
30 feet high & spreading rather
than ascending. Another patch
of *Lactuca Scariola* behind Mr McKays
paint shop. Rain began at
1 o'clock & I came home.
Went to Boston by evening boat the
city & Rockland.

Aug 15 Wrote for Boston at 6 AM by the City of
Bangor. Walked before dinner in
the woods near house & onto the pasture
above Amudon's house & onto Belfast
road & into the field again opp wharf
St & so home. *Habenaria hiduntata*
& in pasture a *Gaylussacia* not yet
ripe but with plenty of green berries
PM rainy

Aug 16 Fine clear day. We went to ditch
Saturday near steamboat wharf & got
specimens of the *Cyperus* growing
the wall of the ditch.
We walked up Mt Battie with
M.A. L.R.W. & Miss Dickey who came
last evening. A very magnificent
view. In boggy place on top got
Eriophorum & noted how late
some bushes of the *Gaylussacia*
resinosa were in fruiting, having
still young green fruit. Present
some "Oxalis" or more things

Monday Aug 18 We went to the house at the top
of High Hill, near the
the little "Oxalis" group: not yet
ripe - a few green fruit
on that way

Aug 19 Went home with Mrs. Barron

Camden
1902

- Aug 30 Arr this morning by Boat. J. C. Rand
on Boat to going to North Haven.
Sept 1 Tracked to Sherman Point & collected
specimens.
Sept 8 Home on Boat with A. D. H. fr who
came morning of Sept 6, & also with
Linslain who came Sept 5.
Sept 12 Arr in Boat for Boston.
13 Called on Miss A. L. Crockett &
saw *Adiantum pedatum* in
her herbarium.
16 Came home by train

- Nov 12 Left Boston, with Hal 5:30 arr Adams.
2.15 via Pittsfield. Had Train (pair
man) & arr Savoy Hollow (B. O. Perry)
8 miles by south road thro West of
Cheshire at 4.20. Nobel Kestly
Mr Barber. Next morning the 10th
drove 1 1/2 miles to the Millers on
the Chelmsford road. Found in
woods two *Platanus* like mosses
one perhaps *serotinum* both
in fine fruit. After sun 10.15
drove back to Adams to 12.30 train
back 2.00 back to Pittsfield, where
we drove tracked out the *Platanus*
tracks - back to Adams 2.00
back to Adams 2.00.

1903

April 21 First warm day in Maryland, but
cold North wind elsewhere.

Chas & Fayou & Walter Fayou came
on at 10.15 train. We walked down

Sept. 25, 1902

Consider (me)
Black Walnut Tree

Mr Frank A. Heflauer
door yard. Near
Hosmer Pond &
3 1/2 miles from the
village.

This one of the first
selected places in town
David Harrington
first owner.

at 4 ft fr ground
growth is 10ft 4 inches.
spread 74 x 70 feet
height estimated
at 90-100 feet.

The white notch is
7 ft fr. the ground
& is a staple curved

Swallows,

Rowaway

to the

to the

side in the

then to the

ed in the

enlock Grove

d none.

cuts in down.

Get down

came up

ill 5-14

1903

April 21 Fine warm day in Pungahong, but
the North wind blew hard.
The 2 Faxon - Walter Faxon came
to the house.

With white cloth.

Tree forks at 10 feet
with two very large
upright ~~fork~~ branches.

Mrs John Boardman
is also an upstream

Mrs Frank A Upstream
Midwin Heights
Camden
Me

See photo &
article

Mrs Parson's
Book on Faxon
abt As. Bingle
at Well on fly
Moor's Gate

1903

April 21

Fine warm day in Piquette, took
 car to North side of river.
 Chas & Fay on 5 Walter Fayon came
 on 7 10.15 train, we walked down
 the track to Green Lodge, Swallows,
 then by Washburn Roadway
 to Dedham Road & into the
 fields just beyond & to the
 Hemlocks: fine Tupelo in the
 fields. Lunched & then to the
 Big Spring, searched in the
 wet mud below the Hemlock Grove
 for Petasites but found none.
 Cypripis, Calla, Violets in bloom.
 Home by 3.12 from Dedham
 Road station & they came up
 to the house & staid till 5.19

1903

Marblehead Pt

Tuesday 29th

Sept 30
Wednesday

Left Boston 10 AM with H. W. K.
Mr & Mrs Sinclair & Mr West Burke
at 4.35. Will meet us at
Leaves & we were at the lake
before six. Mr & Mrs Crane
of Somerville, the latter Mrs Richardson
sister the only guests. To bed
early after walking a bit on
the moon lit piazza.

This morning have walked on
lake road. Mr & Mrs Sinclair to
Roaring Brook, Hattie & I to Echo
Rock. Took half a dozen photo
the day being exceptionally fine
after a rather cold night.

Took a slide on Mt Kos-Top
place in May last. I am
sorry to see the *Acacia*. This *Acacia* is
not as plentiful as in June 1901 &
I am afraid is doomed to extinction.

PM we all went to the ridge in
pasture overlooking Little Pond & the
Bog while the others luxuriated in
the brilliant sunshine. I gathered
Lycopodium clavatum & *complanatum*.
specimens of the *clavatum*
has from four to five branching
peduncles per plant & of the
complanatum from four to ten.

of the complanatum there was no regular
~~style~~: monostachyon growing on plants
 with polystachion habit: also a
 sterile branch in two instances
 was growing. grew out of a fertile
 pedicel.

In complanatum a proliferous
 apex to several fertile spike
 was new to me, & these shoots
 had leaves, unlike either the
 sterile branches or the bracts of
 the fruiting spike. These growths
 varied in length, in ^{only} one case
~~only~~, fully as long as the spike.
 The appearance was very singular.
 We searched for the fragrant
 fungus but could not perceive
 any.

Oct 1
Thursday

Day cloudy after yesterday's
brilliance. But hardly any rain
fell till after dark. Mattie
remained at home, but Ma &
Sueclai & I to Cold Brook path.
Careful search revealed
Vacc. vitis-Idaea, but growing
in a very straggly way as if
attempting to live in spite of too
much sunshine & dryness of soil.
However it covered more area
than in June 1901. Found a
Mitella nuda in fresh young
flower & pressed it.

PM Sueclai & Ma & I walked to
Westmore & back, & started out
later & met them abt. a mile
beyond Roaring Brook. The road
has been mended at the Drinking
Trough at Roaring Brook & an Iron
rail put up on a good granite
wall on the lakeside. Found
Verbascum phloxoides & a reddish
Bryum wh. I shall send to Collins.
Chloogon in full flower & Equisetum
scirpoides in fruit

Oct 2
Friday

Went & fixed yesterday's picture & then
went a long by the swaggle & with Sinclair
to the spring & back to dinner by
the new corduroy wood road thro the
wet woods below Little Pond Bog.
In P.M. we all went to the Pasture
Ridge & sat awhile in the Sunshine
& then "invited" mother over the
spruce log fence & thro the wood
to the above Corduroy Road & so
out on the Highway home, thus
giving mother a sight of the
beautiful waves below the
Little Pond Bog.

Oct 3. We all with Mr. Richardson
Saturday partook of Sinclair's Camp
Dinner at 12.30 at the end
of Cecil Brook path. I took a
dozen snap shots of various
portions of the scene. The cooking
was excellent the day fine &
the views of lake & cliffs grand.
after coming home I went
out on Mr. Fox's Knoll & gazed
about & thought of the Hermit
Thrush & finally gathered some
various Lycop. compl. & so home
at five o'clock

81
The leaf of the Fir Balsam has no evident petiole or pedicel, the round foot of the leaf leaves a distinct scar on the branch when removed, but nothing like petiole of the spruce leaf: and yet the petiole of the spruce leaf is no petiole at all, as it does not belong to the leaf, but to the bundles of branch structure, being an evident apex of such bundle. The leaf of Fir Balsam is also softer & less sharp, pointed than the spruce. When spruce leaf is pulled off it often breaks

down & brings away part of this fibre bundle constituting its apparent petiole or stalk, a fir balsam leaf never breaks the surface of the branch, it simply leaves a scar.

The leaves of the White spruce are sharper pointed than the Red, & stand more square on the branch, hence feeling sharper, the red spruce leaves have an inward curve which makes them feel much softer

when pressed in the hand, & this altho
the Red Spruce has a more square
peculiar base to the leaf than the
white Spruce.

THE WINTER OF 1903-1904

The winter of 1903-1904 will long be remembered both on account of the large amount of snow which has fallen and for the low temperatures which have been experienced. It has proved to be a so-called "old-fashioned" winter and, certainly, it will tax the memory of the oldest inhabitant to recall a winter with a greater snowfall or a longer continued period of sleighing.

At the Blue Hill Observatory, during the three winter months of December, January and February, 83 inches of snow have fallen. During November there were 4 inches, and so far in March there have been 6 inches, making a total, from Nov. 6 to date of 93 inches, or nearly 8 feet of snow. This is the largest amount yet recorded in any winter since the establishment of the observatory in 1885, and is more than twice the average depth of 45 inches, the fall during January, alone, being 43 inches. Other snowy winters fall far behind 1903-1904 in snowfall, the next greatest depth recorded being that of 1893-1894 when, in the three winter months, 64 inches fell. 1886-1887 follows with a total of 62 inches, while 1902-1903 has a record of 61 inches. 1903-1904 also holds the record for the number of days on which snow fell, having 27 to its credit when one-tenth of an inch or more fell, and 10 days with less than that amount. This winter is closely approached, however, by several other years in this respect, there being 26 days in 1880-1887, 25 in 1887-1888, and 24 each in 1802-1893, and in 1900-1901, when one-tenth of an inch of snow fell, the average number being 18.

During this winter snow has covered the ground for a longer consecutive period than ever before recorded in this vicinity, during a period of twenty years. In December, from the 24 to the 9th, the ground was covered with snow varying from 1 to 4 inches and good sleighing was enjoyed, while from Dec. 26 to date the ground has been constantly covered, the amount varying between 4 and 24 inches. The maximum depth of 24 inches was recorded on Jan. 9 and again on Feb. 15. At no time between Jan. 8 and Feb. 29 was the amount on the ground less than 13 inches.

Not alone in snowfall has this winter distinguished itself, however. While not the coldest on record yet it takes its stand among the coldest, being the most severe since 1875.

The cold weather began to evidence itself early in November and has continued with few interruptions until the present week. November as a whole was not an extraordinarily cold month, owing to a very warm period during the first week, but the latter part evened things up by being from 10 to 20 degrees colder than the average for that time of year. December proved to be the coldest December since 1890 and January turned out to be the coldest month of that name since 1803, while February, not to be outdone by its predecessors, kept up the good work by being the coldest February in nineteen years. The average temperature for the three winter months has been 20.8 degrees, and this has been exceeded only four times in fifty-five years, 1852, 1893, 1873 and 1875 being colder. 1803 was the coldest winter in this vicinity since weather records began to be kept in 1849, being about 2 degrees colder than this winter. January, 1857, is the coldest month on record, the average temperature being 12.7 degrees or 5.8 degrees colder than January, 1904.

During this winter the temperature has fallen below zero fourteen times, the average number being five times.

On Jan. 5 and 6 the minimum temperatures of 32 and 28 degrees below zero were recorded at the Valler Station of the ob-

servatory in Readville. These are the lowest temperatures on record in this vicinity.

There has been somewhat less than the normal amount of sunshine. The wind velocity has not been unusual and there were no very severe gales. The wind direction was chiefly from the west and northwest.

L. A. WELLS.
Blue Hill Observatory, Milton, Mass.,
March 9, 1904.

1904

April 13

Sent Pres Borained
2 sheets Mill vt violets
2 " " " Potamogeton
to name.

April 14

Left Boston 10.10 with A D Hodges Jr for
Mayland: reached by direct road
7 miles to Concord; cold raw
day instead of getting better
we had two snow storms, in
one of which near Walden Pond
we ate our lunch at 1.30 standing
in the fast falling damp snow.
Home for Concord 3.16 train.
Salix tristes in early fl & lots
of blue birds: the bright blue
of the bird against the blue black
storm cloud made a picture.

April 15

Sent Oakes Ames
my Mill Corallorhiza the
curious regular one & my
ischaetes & Botrychium
to name.

April 15

Rec'd from A. S. Hitchcock, Washington
the Melanthera Agrostis sent
me a few days ago.

1904

23 April Fine day. accepted Mr Levitts invitation to join moss chapter in walk to Prospect Hill Waltham. Collins came fr. Providence at 9.19 we took 11.19 train in town + 12.24 to Riverview. about 25 ladies + 4 gentlemen, the above 3 + Mr Huntington of Amesbury whom I was glad to see. This ladies included Mrs ~~Clapp~~ Elapp of Dorchester, Mrs Stevens the daughter in law of Brookline Miss of Framingham + others. Got the commoner mosses + Huntington picked *Hypericum chrysophyllum* which I then collected.

Mr. Huntington gave me *Compylotelia saxicola* from Amesbury.

We got 5.27 train home + 6.27 to Readville.

May 3 met C.E. + Walter Faxon on arr. of 9.15 train + by Milbrook place to Green Lodge. Sent Wm. Home + walked thro' Nashburys to Kemlock Grove + Big Spring where lunched. Day brilliantly warm. Ther 80° + we enjoyed every moment. Brought home "Greens" of *Coelotha palustris* + also Water-Cress from Spring brook. Saw Brown Thrasher + the Faxon's heard others. Wm came fr us Dec Lane Road at 3. N.F. went by Elec. C.E. + I staid to dinner

1904

10 May

Lexington & Burlington

with C. E. Taxon 9.09 train to Lex.
where Walter F. met us & we walked
towards & to Burlington: had
our lunch by cold spring in
pasture meadow & then by
a wood road back to Revere St
Lexington going by Mr Simons
ho. an old resident. The wood
road came out on the Bedford
Road just beyond Simons Ho
& close to Brook. We had
already passed a lone friable
ledge where Red Earth or
stone was once ground for
Red Paint. We turned down
Revere St to cross Davis Hill
near the Golf Links: Fire had
gone over the hill within a
week & we did not get
what we were looking for i.e.
Silene pennsylvanica, but did
find *Ranunculus fascicularis*,
which I have not seen growing
at Lexington since 1863. We had
a delightful day after yesterday's
rain. C. E. & I dined at South
Station & home 7.15.

1904

89

15 May
Sunday.

with Sinclair & Mr. Clayton to walk in Blue Hills: by Resett. Road to notch in Hancock other's that path will turn to the right & come out on the newly located road to run for miles to Crossman Farm. The trees being mostly cut for the whole length of the road but no surface graded or even touched. We walked along it to the Crossman Pine & at home by Sunday, once - out behind Halletts. Many fine *Viola pubescens* & *anemone*lla, both will be right in line of the new road. The day was cold with a misty East wind but good enough for walking.

17 May
Tuesday

Lexington & Burlington -

Took the 9.19 train but C. Faxon could not go: met Walter Faxon at Lexington station & we took same track as on the 10th only in reverse direction. We had a view particularly to see the prostrate *Juniper* again, & we found the pasture after a little aberrant

95
wandering in the Scrub Oak &
Buckeye, etc. after studying the
forms above I expect it is
not *Sabina procumbens* but
a fastigiate *Virginiana*. We
found white *Viola pedata*
white *Rhodora* & a few petals
Anemone nemorosa. Tony, a
little black spaniel dog, that
often walks with Mr. Faxon
though not belonging to him,
went along too. We lunched
near some meadow spring,
& after getting back to the
village strolled into the
ancient cemetery & then to
Mr. Faxon's house, where are
most of his Shakespeare Books.
Home by the 5.10 just as rain
began to fall.

1904 Willoughby Vermont.

23 May Left Boston 10 am with Hook & Ma J.
arr West Burke 4.33 & as it had begun
to rain Will Richardson got covered
carriage fr. stable & we rode up in that
with driver while Will R. brought trunks.
Mr Hall & his son fr Lyndon here for
the fishing.

24 May with Ma J to Picnic House & 1st slide.
I went to base of cliff found *Saxifraga*
oppositifolia in fruit as in former years.
We came back thro the woods & I
found 3 plants *Diaca palustris*,
also on cliff 1st slide a pure white
Primula mistassinica.
PM we went to Marl Pond & Bag:
Rhodora in bud & young flower.
fall. new last winters lumber road
to brook & bars at foot of Miss Cobb's
view pasture. fine *Streptopus roseus*
& *Prunus Pennsylv.* and very large
catkins of *Salix lucida* & on
roadside by Big Boulders, small
staminate pl. catkins of same (*lucida*)
New cut out Newblack bog through
at the snoggle. after coming
home I to the wood following
up the Barn Brook & found a
10 or 12 ft fall coming over
the ledge & several interesting

looking mosses on the wet rocks & old logs & branches. I staid exploring about there for an hour or more, for where *Myurella Careyana* is found one expects other good things.

25 May

We walked thro Sugar Grove behind the house: I never saw before the mountain path changed into a heavy brook coming from that little spring we usually drink from before begining the ascent. PM I walked by short wood road - at West corner of Farm, but it soon ended & I followed a small brook into Cheney place & then hastened home on acc of rain wh' continued all day & all night.

26 May

We walked to Echo Rock & back. *Vitis Idaea* still succines. *Chiochus serpyllifolia* in full flower. Not over half a dozen *Orchis spectabilis*. Got a few mosses & a curiously large *Barbula fortissima* like.

PM to the ridge back of Hotel & then down the road & into the Little Pond

Bog where *Amelanchier alnifolia* & plenty of *Kalmia glauca* in bloom.

Friday
27 May

A.M. to the woods opp the house went up Laundry Brook to its source, on a large rock collected what may be *Uckera complanata*, also some *Myurella julacea*? & *Rhacomitrium luteolum*? a fine moss place up there.

P.M. went down the road to pasture & brook near Golf Links & found more *Equisetum pratense* & have sent some to Eaton. Also *Cyperus pubescens* & *Bruna Virginiana*: searched the cedar swamp near the pasture for any *Saxifraga* but saw none. A cold windy but fine day for the woods.

Saturday
28 May

This A.M. walked to Lake Shore beyond Roaring Brook on the Lake Road. About 100 yards this side Roaring Brook found what appears to be *Antennaria plantaginifolia* not on my list — The *Eucalyptus* seem to be in fine shape & I shall try to find a set of 50 or more. Searched for *Cypripedium arietinum* but without success.

941
I then went down the road & beyond
Sally's house entered Listeria Swamp,
after much search in debris of
cedars & other fallen trees found
Listeria Spring, but it was a
sad sight: the Spring boxed in
a wooden cage & with a dead
jumping field mouse & a dead
frog, my heart was sad to
look at such a sight & compare
it with the same spot five years
ago. I crossed the swamp sharing
no longer a cedar swamp &
came out at lower end of Wolf
pasture. Came home by
same route as yesterday &
dug up some *Equisetum*
pratense in field, got also
a baby *Ophioglossum vulgatum*
but could not find another
picked some *Yucca* rose not
yet in bloom in Phillips orch, farther
near the old cellar (this not on
my list) and on the highway
found *Amelanchier Canadensis*.
We omitted from my list
because I had no specimen; prob
I shall get first all I list
on my cards & in blank books.

1704.
Sunday a very wonderfully fine summer day, &
21 May a grand drying day. After renewing
all my dried cracked to & the Slide
and part way up & after dinner
to the corner of Mrs Richardson's farm
by the Stevens where is quite an
excursion. Back & then thro the
woods by all the Springs & brooks to
the Suzzie drinking place to home.

Monday walked in Am to Sall's house & had
22 May. talk with him abt Oil Cedar & to
the further side of Colfield & Brook
coming off Noad's ridge in Philbrook
saddle.

Then went along Lake road to Echo
Cock & back: got several varr
of *tragaria* & also some others
in carry home, nothing new except
a rose evidently come off the
cliff with *Astragalus* & *Carex*
scirpoides but instead of hemp
unwoth like *blanda* it has a good
supply of prickles, but the foliage
looks like *blanda*.

the far from, I think, I named Trispidia:
we found it at last, an opening some
the right some turned left before we
reach the brook opens into a grassy
spot, ending at a pond that well
recognized as one we had passed
half an hour before. The Lonicera
oblongifolia was in bud; but
in the north stream bed I
got Myrica hexandra in fruit
& with me eight paper bags full.

On our way home just before
reaching the Saw Bridge I saw a
plant growing bluefully by some
stones thrown out at the roadside
& saw it was some Melaleuca (Myrica)
& new to my McLaughly list.
Will get some 13 trout in the
trip -

1904

June 1.
Wednesday

A rainy night & cloudy threatening day.
Took care of yesterday's plants
& mowers from Scipio's Bog.
Then went over to Cheney
corner of Mrs Richardson's land
& got some of the *Equisetum*
there for study at home.
P.M. packing &c for our
return to Boston tomorrow.

Thursday
2 June

We all to W.R. function by 11.30
& after dinner at station to
F.E. Alders & I home by the
2.43 express. Ha & Ma I re-
mained over night & came
home on 3.30 next day.
Found in F.E. Alder's yard
what appears *Rumex*
Patientia sent her from
New Jersey & spreading
now quite rapidly.

June 12. Hattie & I drove to Nelson Poor Farm, Mr. Sanford in charge & then thro Col. Russell's, over Chickatawbut & out by the Brainerd wild road by edge of Reservation, Brainerd Pond & thro Reservation to Killbuck & round So side Blue Hill to Canton Ave home. very cool fine June day.

June 15 Lexington & Burlington

By 9.09 train with C. E. Faxon & Alfred Rehder to Lexington and Walter Faxon met us at train. We walked by road (Hancock & Adams St) to Burlington; in the brook by old sawmill handsome *Ranunculus incrophyllus* and *Callitriche heterophylla*; at our lunch place by the cold spring in meadow got some of the carry gathered 3 weeks ago when young, & I think it may be *C. siccata* — Not far along the road from this place we turn in to the left & by a cart path thro a wet pasture come to the Juniper brook.

which Rehder decided was a peculiar "Virginiana" but its fruit or "recurved peduncles" must make one look for other distinctive characters: the strong odor of Sabina var procumbens was wanting in this specimen so that may be after all a noticeable feature. We kept on thro the scrub to the Pine woods or wet pasture had our lunch there. A small & almost capillary Carex varia & Myosotis laxa. Then back to W. Fayon's house over Davis Hill; a peculiarly long leaved Carex Pennsylvanica & another Carex like muricata.

I took along with me. as Rehder had never been in Lexington we after a short stay in W. F.'s library visited the green & the Town Hall to see Sandham's picture of the Battle of Lexington.

1904

Brandon Vermont

July 12

Came here yesterday with H. Mat
via Keene 11.15 to 5.10. Fine
met RR crit near Westminster
Mass to examine. Scenery not
so fine on the Rutland RR betw.
Chester & Holly Summit as I
had been led to suppose.

The marble cropping out in
pastures looked very new
& strange & Rutland & Proctor
were all devoted to the trade.
We are at the Brandon Inn
rooms 49, 50 & 51 very comfortable
walked after supper along
the main street beautifully
shaded with double rows of
maples: houses unpainted
very neat: wide roofed
old-fashioned cottages, the rule,
with one very steep pitch narrow
roofed cottage. Evening high
very warm & still we remarked
the absence of mosquitoes out doors,
tho all our rooms were well
screened.

13 July.

members of the 14 Bot Club began to gather at the Brandon Inn at noon, & Pres. Brainerd & Prof. Morse of Burlington were in the first party. Carriages were got ready after dinner & I was in Brainerd's & we drove to Silver Lake, walking most of the way in the ravine where runs a beautiful brook & where I found *Asplenium angustifolium*. I had seen the notice of Mrs. Huntington's death in a *London paper* & had telegraphed Mrs. Huntington. I could think of little else all the afternoon. A heavy thunderstorm after we reached the Silver Lake Hotel. Prof. Perkins present also Mrs. Terry of Smith College & Annie Loring. At the evening meeting I called the attention of the Club to the Welloughby P.C. matter & a committee was appointed of Pres. Brainerd, Prof. Morse & Mr. Davenport. The Hotel at Silver Lake kept by a Methodist is not as good

Dr. H. H. Swift - Pittsford Vt took photo of Club

Dr. H. H. Swift - Pittsford, Vt., took photo of Club
& gave me some beautiful ferns & flowers
photographed.

as McLaughlin. This perhaps the sudden
arrival of 30 or more people may
have tried the landlady's resources.
However he does not sell liquor
or cigars & no doubt has a very
quiet household. The wood
drive is remarkably pure & the
place may be a little smokehouse
kitchen.

This morning while the others went
to Woodstock Mt & Lake Dunmore
I drove home with a Mr. Briggs,
a young man who was returning
to Brandon: arrived at 10 o'clock
found telegram from Berrett Hunt-
ington that the funeral was at
Danvers today at 11 & the funeral
at Hadley tomorrow at 3; the
train connections are so very
bad that I reluctantly gave
up going to Hadley.

On walked with Hattie & Mad-
dette Jewell: but could see
nothing to be considered worthy
notice. Had to take the
ice part of it on foot - having
no thermometer to know how
other by the thermometer.
a fine afternoon with cold breeze.

104 1904

July 14. We drove to Lake Duunore had
luncheon at the Mt. Spring Ho.
by side of the lake. Went out
not by the regular stage road
but over the mt. road with
views of the Adirondacks & on
coming back over a piece of
mt. road near the lake wh.
led us for half a mile or so
along the shore of the lake at
the upper end & then rejoined
our morning mountain road.
Inspected Silver Lake as a bot-
anical ground: the day was
not at Duunore lake side, tho
a cooler breeze blowing on the
sills. Found a 5 ft *Malva*
many-branched, fr. the ground
that hardly matches *Malva*
verticillata description.
Lake Duunore not as pretty as
expected — not to be compared
with Willoughby. The various
mt. limestone cliffs on the
roads here suggest interesting
plants. We reached home
at 4.15. Rather rather
tired with the day.

July 15 A.M. went to small ledge hill
back of the Episcopal church, got
fine aspl. *Chenopodium* & a *Carex* I have
not named.
P.M. we all drove short trips on roads
abt the village & to the Marble
Quarry where the foreman explained
the methods of cutting & splitting the
marble: they are now down
abt 60 ft & the lower marble is
finer & whiter. The blocks are
about 6 ft x 4 ft. On rocky
ledge got *Arabis* & in a damp
place *Pycnanthemum nuttallianum*.
Day rather warm & cloudy but
the expected rain did not come.

July 16. We drove to Silver Lake betw. 9.15 &
11.15. The lake lies in the town of
Leicester while Dunmore is in
Salisbury. Staid there to dinner
& got a few mosses. On the
road home & in the wooded ravine
got *Aster pumilus* in full
flower, even an old fl. spec. it
might be called. At Forestdale
the village near the fine roadside
spring & beautifully situated little

church in the woods we visited
the wood working establishment
of Newton Thompson Mfg Co
Brandon Vt
Wood Turners
A. S. Newton Pres.
C. K. Bump V. P. & Manager
L. J. Fortier Treas & Sec

They make all kinds of turned
boxes, trays & buckets &
also small locked corner Boxes.
I bought a dozen long boxes
to hold style pens for 15 cents.

Sunday
July 17. At home in AM Day quite warm.
PM we drove the Sugar Hollow
road, going out on the Rutland
Turnpike to a mile fr. Pittsford
& then turning off East by some
good pine woods over sandy road
& then North a very pretty drive
down to Brandon.

1954

Monday. Heavy rain & thunder in the night &
 July 15 - quite warm day following.
 at home in Am. but in P.M.
 I took 2.40 train for Middlebury.
 very wide plains betw. Leicester
 Junction, thro Salisbury almost
 to Middlebury. Drove to Pres.
 Brandeis house $\frac{3}{4}$ mile from
 station on a pretty knoll.
 He & family had gone to camp
 on Lake Champlain. Then
 drove thro village to College
 Buildings just to see the
 grounds. The new Catholic
 church built close to College
 grounds has a fine tower.
 Back to Boston & bought 10
 vols. Chambers Miscellany for Ruth
 & then walked to station
 took 5.02 to Brandon: very
 heavy rain en route but
 arrived dry at Brandon.

Tuesday
 July 19

From Brandon 10.15 am to
 Boston at 5.45. Day hot
 & bright. Fine views of Monad-
 nock & I noted a small hotel
 near station at East Wallingford
 Vt; this being the town where I
 have planned to explore Bog.

2108 Melton

Sat. July 30. 1904. Drove to Massapeag Pond
& by Mountain St Sharon &
Bay Street home. *Phlox*
paniculata on roadside
by old cellar near Friend
Drakes house with its curious
1846 sign abt. shooting on
his farm. Also *Aster*
spectabilis just in flower
on Bay St and *Nepeta*
Cataria which I have
called rare hereabouts at
two old farm houses & in
road near them. The wind
blowing across Massapeag
reminded NWK of Undermere.
The Potter place is unoccupied
for sale.

14 Aug Sunday: Drove to Norfolk Down's station
+ got some *Cassia chamaecrista* L

Wayside Inn

15 Aug 1904. With Chas E. & Walter Faxon
to the Wayside Inn at Sudbury.
By 10.10 train to " station at
10.50 swaked along the road
intending to go to Nobscot Hill.
but when we reached the Inn
everything looked so uninteresting we
ordered dinner & remained
from 12 to 2.45. We measured
the big Quercus alba & also
the somewhat larger Q. velutina,
and noticed the large Fraxinus
Americana: coll. a leaf at
root of Quercus ~~velutina~~ alba.
Did not collect much: a fine
Aster patens & a flowering
potatoe wh. some one had
thrown down by the roadside &
it had rooted & flowered. We
walked to South Sudbury station
to take 4.12 train home.

Lost the cord with my measurement of the trees
Evening telephoned to Annie F.
Williams who reached home
yesterday afternoon fr. Europe.

Walter
Faxon
Dec 8. 1891
note of
the two
oaks

Q. alba
18' 10 1/2" circ at 3 ft
16.1" " 5"
15.7" " 6"

Q. tinctoria
17' 3 1/2" circ at 3 ft
16' 9 1/2" " " 4 1/2"
16' 8 1/2" " " 6"

1904 Orleans: Cape Cod.

Tuesday By 7.38 train arr at Orleans
Aug 23. at 10.40: Mr S.W. Gould met
me with Team & we drove over to
Rock Creek Harbor & saw the
now small number of fishermen,
men getting quahogs & clams.
Mr & Mrs Gould are boarding
with Mr & Mrs Howard Crosby
& I was made quite comfortable.
after dinner with the Goulds
drove over to Freetown & East
Orleans & to the 7 acre piece
planted Mr Gould owns: got
several plants & he took me
specially to see a *Heracleum*
by the roadside. The day was
very fine clear & cool.
at supper time we walked
to a bit of marsh just beyond
the Eastham line to see if
my shore birds had come;
here was *Malva Moschata*
as bright as any Red Iris.
In the garden *Nerium*, the
first I ever gathered.

Wednesday Aug 24.

Mr. Gould & I drove by the Bridge Road into the Eastham moors & woods, near Dr. Maurice Richardson's pond where we could look across at his house & duck blind from the artificially cut brook that flows from pond to Massachusetts Bay. Out I suppose for the Herring. Was this place was the first *Coreana* & also young *Polygonella articulata* which puzzled me for some time. Thence to the Camp meeting ground near which was *Artemisia Absinthium* in a door yard: thence across the RR by a wood road where was fine *Tephrosia* & *Monotropa hypopitys* to the Nauset lights, three low light houses built on the abrupt edge of a sixty foot cliff & which have been moved back to get beyond the reach of the waves. a life line from the edge of the grassy bank to the beach below, a deep dark color to the level.

moving waves reminded me that not always are August skies & weather to be found here. The view was grandly beautiful. Thence we drove through moors across to a glacial boulder a single stone abt 30 ft in diameter & fifteen ft high & nothing like it for miles or indeed until you reach the big stone boulder at Rock Harbor, which we saw yesterday some distance off on the sea shore. Thence we came thro the village of Eastham Centre & always by small & deep ponds & so homeward calling on Mr & Mrs C. B. Davenport near the Crosby's.

After dinner we played croquet till time to go to the 3.26 train which landed me in B at 6.22.

Monday with Sinclair & M. J. to Cape; he to
 29 Aug Chatham, we for a noon lunch at
 South Wellfleet. many mosquitoes & very hot day.
 large branched *Scheuchzeria herbacea*.
 met Mr. Gould on train & sent 15
 shore birds to NWK. Home on 6.45 train
 & C. E. Faxon here to dinner.

1904

Massapoog Pond

Sept 2 C. E. Faxon out here at 10 AM took
Friday my horse & drove to Massapoog
Lake & home by Mountain St
& Bay St. Lunched at farm
on Mt. St near North Eastern line
in helleach near Cranberry
meadow. met Mr Drake
on Mt. St & his father put up
the sign on the old Drake
House which is as follows.
"Take Notice. Whereas I have
sold to several gentlemen of
Boston the right to hunt in
my grounds. That entry
on these premises by any
other person for the purpose
of hunting with dogs or guns
are strictly forbidden.
Friend Drake
Sharon May 27th 1846."

He told us that Mr Horse Sargent
of Beacon St & David Drake
nailed up the sign. He
did not say whether it was
their composition.
He was himself an original
& having been a soldier for
some years in the civil war,

appears to have settled into a state of quiet in his declining years: he journeyed to Boston last week (probably to the G. A. encampment), not having been there before for twenty five years: he sleeps in the old house & takes his meals in his daughter's house half a mile away. At the pond opp Plain St on Bay St we found plenty of *Conocleis rosea* but did not as I intended explore all around the pond.

Aster spectabilis is a rather common roadside plant in the woodland parts of Bay St. Home at 5 o'clock & C. E. & I dined here & we listened to the colony of Katy Dids at our front gate.

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Killboughby Vermont

Sept 7, 1904 Wednesday.

Left Boston 10 AM yesterday
with H.W.K. & Ma J. arr West
Burke 4.50. I drove the
pair of greys up here as
Charles wanted to take up
other passengers & trunks.
Miss Carby of Stoneham Mass
niece of Mrs Richardson
came up with us. Day
evening very clear & bright.
And the fine weather continued
all today. Walked in
AM with Ma J almost to
Roaring Brook: road full
of funcoes & shadows very
beautiful. PM we all
went in Capt Averells boat
the Keywaydin around the
lake.

Deepest place 274 feet
just about N.W. of the lower
part of the Gut & say two sharp
miles fr south end of lake

Every cloudy up, but warmer
than the cold clear last evening

1904

Thursday
Sept 8

Rain till 11 o'clock after which I went in field opp the house & found large sterile *Equisetum pratense*. In pm on the Cold Brook path hoping to find *Lycopodium complanatum* var *Middleii* but did not. gathered much *Lycop. arnotum* branched to 14 times & quite cup shaped in its growth. also *Carex retrosa* Schwein & fine *Aster pumilus lucidulus*. Coming back on the roadside opp. Cheney, lower gate into the Spruce woods found *Lycopodium complanatum* of a very diff form from Fernald's *plabelliforme* & I picked enough for a dozen sheets, only one however with fruit: pressed it before supper. Evening walk to Hall at Glacier British Columbia.

1904

Friday
Sept 9.

am to Cheney Woods again looking for
Wibbeii but did not find it.
a curious *Menziesia* in the wet
place near Cheney Boat House
large fine *Carex retrosa* again.
it is the only *Carex* that seems to
flourish in September. After
dinner to the Pasture Knoll
found the Wibbeii but old &
yellow looking as if something
had made it Wibbeii, i.e.
not as fine & good as real
complanatus. all the single
spiked plants looked sickly.

1904

Sept 10 AM along the ridge opp the
Saturday house. Lots of *Equisetum*
pratense in the woods; it
looks now the most common
Equisetum up here. Varying
forms of *Aspidium adnigrum*
fine *Asplenium platyneuron*
In *Scrophularia* pasture *Lytopodium*
clavatum *monostachyon*
which seems common enough.

2 plants of *Erechtites* in Mrs. R's
potatoe patch: I brought
in for the garden here. *Asplenium*
platyneuron.

Sept 11 A hazy doubtful morning slowly
Sunday. cleared off into a day of wonderful
beauty. I walked up the Lake
Road to a point abt a mile
beyond Roaring Brook: & at a
little cold brook near there
could not resist gathering
a few curious mosses. Searched
carefully for *Erechtites* at the
place where found last fall
but did not see one. The
view across the lake with its
misty white caps was very
beautiful. On the way

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home overlook Mip Carbee. ~~and~~
who had walked to Roaring Brook.
Late in the afternoon with Maud
to sack the sheep in the Golf
pasture.

Sept 12
Monday Am walked to Green Tunnel with
Maud calling at Katie McFarland's
at the Bishop Farm. Gathered
some of the *Crataegus* fruit
at the old abandoned farm &
sent it by mail to Prof. Vasey.
PM walked to Echo Rock.

Sept 13
Tuesday. a very beautiful day.
Am to the sugar woods & ridge
in pasture. Found *Equisetum*
pratense with even the branches
having ridges densely set with
spiculae & the branches have
as far as I have observed been
always smooth.

PM at home & walked with
Hattie to the Cherry Cottage.
enjoyed the delightful air, sky
& view. Found in one remarkable
large *Geaster* with thick leathery
6 divisions ribs cup, very strong &
persistent. a division puff ball

1904

Sept 14
Wed.

Imp JW Payson & Imp. A. B. Humbley
went this morning at 8 intending
to visit the St Johnsburg Fair
to day. I and I walked up
the pasture path opp the house
& so over to the once existent
Spruce grove; now no longer
there but an overgrown mass
of young birches & waste. Then
home by ridge & strings &
brook opp the house to
Cheney fence & then down to
road.

Raining in PM & I read in Fontenelle's
La Pluralite des Mondes.

very good *Carex tenuella* in fine
fruit near Cheney, fence beside
a big rock on roadside and
a clump of very vigorous
Carex retrofracta on the lake
shore, which seems to have
escaped. Mr Cheney's mares
devouring scythe: the roadside
& by beach are terribly laid
bare by the scythe.

Sept 15 A Postoffice inspector spent last night here & I was glad to give him my views on the abolishment of the Willoughby P.O.

It rained drenchingly in the night & fairly so early today, but I walked dry to Echo Rock between 10.30 - 12.30. Got a few *Equiseta*

on the Lake Shore beach, but did not find *Prateris* with branches roughly spiculate. *Rosa blanda* by roadside has small ovoid fruit with sepals reflexed persistent.

PM I walked to South view & then in pasture & by the pool or bog hole near the Elms. *Carex retrorsa* in fine shape also normal plants of *Mentha Canadensis*. What I found on Cold Brook path were simply specimens grown in shade & so loose & large. Got *Equisetum arvense* also & some with the little tubers on rootstock. Some hypnoid moss spreading over the flat areas of mud & a *Veronica* I also brought home. & near the Big Boulder on roadside a good spec. of *Equisetum sylvaticum*.

1904

Sept 16
Friday

Mr Barreman Gale 79 & in the
Secretary's office at New Haven
came last evening & this Am
he & I & Miss Thomas of Los Angeles
went to the Top of Mt & North
Outlook: fine day with rolling
white clouds in sky. Did not
collect a plant.

PM with SWK & M. S. to the
South View & home through
the pasture & road.
Evening Mr. Miter came by the
late train from St Johnsbury,
having been in Lunenburg.

Sept 17
Saturday

Mr. Miter was showing me
photos of White Mt scenery
in Am & we did not get
out till near noon when
we went only down the
path towards lake a very
short distance.

After dinner we went to Forest
Slide & found many things of
interest us. *Parus* in
blossom & *Saxifraga aizoides*
Lobelia Kalinii & aster
Polyphyllus: I collected
some *Equisetum* probably

arvense or its var nemorosum on the rich earth by the side of upper part slide. Also *Abies viridis* a fruit. We crossed the upper wall & climbed over the ridge to next slide & found more *Saxifraga oppositifolia* here, so I thought it a good place to go fruit next spring. I collected also a *Panicum* & two other grasses & we came back down the slope at sunset.

Sunday We arranged & tabulated yesterday Sept 18 things till nearly noon & then to the Ridge & round by the end (outlet) of Little Pond where I showed Miter the *Salix balsamifera* of which he took specimen. A Blue Heron arose from the Pond: after dinner we walked to the Sutton road & after much search in the much-cleared wet fields found one stunted bush of *Rhamnus alnifolia* which I had pronounced to show Mr. Butler. Also in dry place on the

roadside & under bushes &
trees found quite a lot of the
true (I think) *Equisetum pratense*:
very conspicuous now by its
light color and the very
horizontal branches. It looks
quite unlike the arvense &
its variety. We walked abt
a mile on the Sutton road
getting home before the thunder
showers which closed this very
warm day. On arrival
learned that an eagle had
been seen flying rather near
the house, which confirms
my rather doubtful impression
that the bird. Ma J & I took
for an eagle the other day
when we had no opera glasses
was really that noble bird.
Caethia palustris in full flower
on the Sutton road one fine
specimen. and a doubtful
Eriophorum.

1904

Across Will Lake the Mountain
to the left is Bear Mountain.
middle one Owl's Head.
Little one at right is perhaps
Little Orford.

Orford itself has a perfectly
bare summit. dome shaped.
Side W. J. Miter.

after going up the Mt on Monday
Pm Sept 19. Mr Miter (who
went into the rocky woods
beyond North Outlook &
saw Orford well) says the
right hand mountain is
Elephant's, which indeed
others have said. He
showed me the whole of
Elephant's from the mountain
& what we see from the
Hotel is only ~~one~~ the Head
of the Elephant.

Monday we went to swamp below
house & Marl Pond Bay for
Rhodora.

Sept 20 Home on the 9.08 with parlor car
from Newport.
attended Florence Barrows wedding
on Sept 21 at 3.30 Pm.

1904 Willoughby Vermont

Sept 22° with HWK and Edith & her children
arr West Burke 4.35. Mrs Richardson
not having recd our Telegram we
came in Stable Surrey - very
fine but cold night.

Sept 23 Ther 29° this morning & a very
heavy frost. On the water in the
boats at the Boat House was
ice one third of an inch thick.
morning we all HWK included
walked to Echo Rock & in the
afternoon all took the Long
Pond Drive. Telegram from
Sinclair that Hal will reach
Boston next Tuesday 7.30 am

Sept 24 Began to rain last evening and has
continued practically all day, so
that we have been forced to take
our tramps on the piazza (70 yards or
rather my-paces) Read Conan Doyle's
story the Cloomber Mystery, dealing
in pseudo-Indian philosophy, as to
revenge & delay of punishment for
a bad action.

Sept 25 Still cloudy & misty in morning.
Sunday I walked to Salls house before
breakfast. had my John Aitken
little telescope of many years ago &

it gives better field & definition than any glass I have even my Goerz 12; have not yet tried it against my Munich glass. Saw ~~Todd~~ ^{song} sparrows, Juncos, Chickadees & Phoebe.

Rain till 11.30; then George & I walked to Cold Brook. after dinner with (na d) & the children to the Ridge & then Cold Brook; the children much enjoyed the path with its damp mossy banks. Saw with my glass the ^{one} ~~the~~ lost from passing black still on the 1st slide below ledge where Mike & I saw him Sep. 17th. Saw large Hawk flying near ledges but could not well mark him with glass. Afternoon constantly threatening rain.

Sept 20 Monday. As we expected Hal to arrive from Japan at 7.30 AM Tuesday we all took the 9.08 train & arr in Boston 5.10: a very long train owing to slide at Willey Notch taking away train service; the Saturday eve. rain washed out several hundred feet leaving RR track in air. Day for us cloudy & rain in Boston. Brought home *Salix balsamifera* shoot to plant.

128 1904

Nov 2. To Ipswich with Walter Faxon:
to Great Neck & Eagle Hill
& back into the town to see
the old cemetery: oldest
stone seen 1690.

On rocks in center of lower
Sedum acre L.

On shore near Langley
river (tidal) a *Rumex*
rather peculiar but
prob. *obtusifolius*.

On meadows little way beyond
Poterium Canadense &
Brassica nigra.

Lunched on piazza of empty
house in warm sunshine
near Eagle Hill. Saw
no Lapland Songspers, as
perhaps they had all gone
by in October: but did
see the Arctic Snowbunting
quite tame, but not in large
flock. W. F. said Birds
were very scarce. We went
down by 10.10 train about
3.50. Ther at 7 am 30°
& a heavy white frost
fell. by a beautiful day.

16 Nov 1904

Walter Taxon
came out & we walked over
the new Reservation Road fr.
Harland St to Hillside St.
Found good Pottia
Home at 1.15 & Frances Linch
with us as Battie was in
town. P.M. with cigars
chatted abt books & Shakes-
peare & he looked over
my library.

12 Mch 1905

area, issues a paper devoted to the in-
terests of all sections. To provide
such a paper, not to gain profit, has
been the sole aim of the committee.

The success of the undertaking
seems assured, but it will be greater if
more people will subscribe for the pa-
per, and contribute to its columns.
This, therefore, the committee urge
everyone to do.

For the Committee, A. H. WARD.

Members of The Milton Record com-
mittee—Andrew H. Ward, chairman;
Rev. T. I. Reese, H. C. Gallagher, Wm.
B. Thurber, James H. Perkins, John
Swift, Arthur Tucker, N. T. Kidder,
Maurice Duffy, A. J. Jacoby, Charles S.
Pierce.

March 9, 1905.

THE COLD WINTER.

The records of the Blue Hill observa-
tory show that December averaged
about 61.2 degrees colder than nor-

mal, January about 2 degrees colder
than normal, and February about 5
degrees colder than normal. The total
depth of the snowfall during the win-
ter was about five feet. But, notwith-
standing the severity of the winter it
did not equal the one of last year,
which was about one degree colder
and gave a total snowfall of about
seven feet.

In order to fine two consecutive
winters as cold as the past two win-
ters it is necessary to go back as far
as 1855 to 1857, when the records of
Mr. Breck show that there were three
successive cold winters. January,
1857, was particularly cold, several de-
grees colder than any month since
then. Other cold winters occurred in
1852, 1865, 1868, 1873, 1875, 1881 and
1893.

The warmest winter during the
past 60 years was that of 1890, which
averaged about 11 degrees warmer
than the past winter—a difference
equal to a change of latitude from Bos-
ton to Washington.

H. H. TAYLOR,

Melenologist.

see after Apr 22. 1905 for our trip to
Melloughby in Jan 1905

1905 March 18th
 Put away in Herb. the last
 number of 347 plants,
 given me by Fernald
 of last summer collecting
 at Gaspe

18 Mch 1905 at 6.20 PM on corner of
 Commonwealth Ave & Dartmouth St
 Boston Saw a bat flying.

26 Mch Sinclair while canoeing on the
 Neponset saw Swallow Blackbirds
 & many 'black duck': the latter
 at mouth of Ponkapog Brook.

1905 Mch 25. After a rainy morning I walked to path in B&R back of the Moleatt place but did not go to the Crossman Pines on acc of the ice on the little hill where the cedars grow before you come to the bog bridge. On root of a tree in wet land back of the Floyd's entrance gate to B&R saw a flat odd looking moss which looked strange to me. It proves to be Cylindrothecium cladoxrhizans, & tho. I have it from Willoughby Vt and from West Lebanon N.H. have not gathered it in Mass. under the compound microscope its more than 12 articulations to the teeth are very evident.

also

Hypnum riparium, L.
" *reptile*, Rich.

1905 Mch 30 Thursday.
very fine day Ther 72° at 2 Pm
walked down in the lower
part of Mr. Kernenway's land,
going down Bush Hill Road &
then along the Reserv. fence.
Got fine *Xyphium* upon moss,
also a sterile moss on the
Chamaecyparis trees & a few
Thuidiums & other *Xyphum*-like
also on decayed log *Dicranum*
flagellare Hedw.; from its erect
capsule, very smooth leaf,
the flagellae are wanting.
The *Xyphium* from rotten log in
boggy pool that I called
stellatum is I think
Haldanurum with rather
shorter & more arcuate capsules.

April 1, 1905. Walked in the hardwood
land E. of Elm St on Mr Hermann's
estate + collected mosses mostly
at the roots of oak trees.

examined at home specimens

Brachythecium laetum Brid.

this moss growing in mats of a
yellowish green color at
and on roots of trees in the
dry woods. upright branches
abt $\frac{1}{2}$ to $\frac{3}{4}$ inch long: leaves
straight - + erect spreading:
plainly lanceolate: nerved
half or more way: rather
plicate. Capsule with
acute lid, gattish &
usually constricted under
the "oblique orifice".
cilia plainly strongly nodulose
or even appendiculate -
nerves perichaetial abruptly
long acuminate as in Tab
115 of Sull desc.

April 9, 1905 Sunday: Walked with NK
for an hour in WKR & behind
the Wolcott & Floyd places.
Got Trechostomum tortile
by roadside there & fine
Dicranella heteromalla.

April 14. Fine warm day. At 10.30
walked down the road & into
the corner of the Kem land
& across the lower avenue &
out on the highway. Then to
near the farm buildings & then
by Fox Sparrow path to Green
Lodge Road & thence to the
Club: where I had a cup of
tea & bread & butter & then
to the pine woods & cold
brook. South East of the
Clubhouse, wh. I named
Ash heap brook: it was
remarkably cold & I filled
my box with various mosses.
found also some Entodon
cladomorphus when I found

in two or three years ago: came home also by Fox Sparrow path Elm St, reaching the house at five o'clock.

Purgatory.

18 April. C.E. & W. Faxon came on 9.15 AM. drove us round to Endicott station left us at path on Everett St & we came thro Purgatory going down all the paths finally striking at angle of roadway opp. Washburn's Roadway near Deobam Road. Then we came along to Beacon St & went in fruitless search of *Langunaria* at the Pasture walls there & then down Saml Cabot's lane to the field at the Neponset Meadows & back to Highway, then by Green Lodge & Fox Sparrow path to Kemmerer Farm entrance & by Elm St home. The day was cold & windy: Ther. abt 40°, cloudy & sunny by turns. Did not collect a thing, but *Caetha palustris* was in flower by the Great Spring in Purgatory. The gentlemen went home before the 8.15.

This page for April 14th mosses

Plagiothecium latebricola B.S. at wet base of
old big willow on Green Lodge Road, with a
very erect, light-colored capsule.

Eurhynchium strigosum B.S., on the ground
on Fox Sparrow path, looks very
plumose & soft.

Dicranum flagellare Hedw. (with a few flagellae.)
near Ash Heap Brook.

Brachythecium plumosum Swartz, on the round
wet stone in Ash Heap Brook.

Pylaisia velutina B.S. on a small flat stone
near Ash Heap Brook.

21 April tracked from 9.30 to 12.30 down by
the Mip. River River. Fence to about
what I have called *Rhynchospora*
pool tho I have not convinced
myself that the moss is plenty
there on rotten wood & silt. It is
Hypnum Haldaeanum.

Filled my Box with other mosses
& brought home pl. sp. of *Caltha*
palustris, *Arenaria nemorosa*
& *Chrysosplenium*. Day sunny
& dry, like. Ther 70 at 1 o'clock.
Sphagnum cymbifolium Ehrh in Herb.
Hypnum Kneiffii B.S. = *H. aduncum*
var *polycarpon* for this spec in Herb.

1905

April 22. To Salem with Mireos, called on Jas M.
Macoun this daughter: walked
with them to the willows & got
Leskea obscura Hedw
Thelia herbella
✓ *Polypodium polyantha* perhaps
tho it may be some *Hyssopus*.
Came back 4.43 train having
gone down on the 2.15.

1905
Jan 14 Addendum:
to West Burke Ut & Will with
ma I: Ther O at house.
Runs of the Hotel Jr. fore on
Nov 15. 1904.
Jan 15 on snow shoes to lake to see
the Ice Cutting & through the
Cheney place. Deer trails in
the snow & probably Gyp the
little dog saw them, at
least he was very much
excited & timid. PM across
Little Pond on the snow
surface & thro' the pasture
Ther O or about O all day
no person came to the house
or went by today.
This morning many Red Polls
flying abt the house and

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coming down in flocks to a
small urine spot, (probably
yups - a female dog) near the
house and pecking away the
discolored snow quite industriously
Home, leaving the house at
12.30 & arr. Mr. Burke at 1.15

Jan 16

1905

April 26 Fine day & warm at noon. Wm
drove me to near Pecunick St at
10 am & I went back thro'
rocky woods to where the Brook
crosses Mr. S. Cabots road road
to the Neponset & then followed
the brook up to the Cold Spring
in Bloodroot meadow. Sat
down there & had my lunch
between 12 & 12.45. Then across
the wet meadows to Cemetery
Brook in its lower part, but
not down to the little pond I
saw over the wall & then up
the South short arm of the
brook to a rocky spring hole
near the hillside covered with
lumber & over that to Durham
Road & on other side of that to
the high ridge overlooking the dug
out pits & kept along the edge
of this place for quite a bit.
Wm came to the corner of Elm St
at 3 o'clock & we drove down first
Woodroad wh. brought us out to
the deep rock cut on the Prov R.R.
where Mr Faxon used to get *Prunum*
pseudo-fraxinifolium. I went
there but found only very

young moss, too young to name. Then
we came back took another wood
road wh^{ch} finally led us by a wooden
sided bridge across the R.R. &
in the field beyond we turned
abt & after coming across H. Ray's
took first right hand road towards
Canton Junction & along the Highway
& foll. Washington St. to Canton all
the way home at 4.30. a few
drops of rain falling at intervals
all the afternoon. Saw in bloom
blue violets, Spice bush, Potentilla
Antennaria, Lupula campestris,
Carex prob. Pennsylvanian, Salix
perhaps tristis: filled my Box with
mosses.

Polytrichum piliferum

Hypnum reptans (very common)

Catharinea angustata.

Anomodon rostratus

~~*Brachythecium complanatum*~~
~~*Brachythecium subsericeum*~~ but
not like any thing I have: appearing
more like a *Plagiothecium* as it
has complanate leaves.

Brachythecium rutabulum prob!
a water form in bunches on wet
stones by cold spring, sterile
very lax areolation looking like
Bry. Eur. picture of rivularia.

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Hypnum cupressiforme
Arilacomnium palustre ?
Hypnum Waldarrianum closely clinging
to wet vertical face of rock in
brook where it must have
been submerged all winter.

Dicranum fulvum:

Lucobryum glaucum fruiting while
the top of leaf is covered with a
Hypnum cupressiforme form so
that I thought in the field that
a *Rhysochoete* was growing on
a bed of *glucobryum*.

Dicranum montanum ?

" *viride* ! on old log
near the Cabot roadway before
getting to the Brook.

Fontinalis Dalecarlica with
caddis cases inhabited by the worm
& simulating the capsule of
Fontinalis most correctly,
showing above the smooth edges
of the incurved leaf cut off and
at base of the operculum two
tufts of hairs, one on each side
of the case. The creature drops out
of this case in the form of a
black hard shelled caddis bug.

1905

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May 2. With Chas E Tappan on 9.09 train to
Lexington with Walter F. walked
to Lincoln, reaching the town by
road passing entrance to new
Cemetery. Along that road
before reaching the Cemetery is
a half mile or more of good
moss collecting woods. Found
Aulacomnium heterotum
+ *Bartramia pomiformis*
Hypnum Schreberi
" *triquetrum*.

Finished by wood pile at corner
of wood road.

From the beautiful village on
a hill of Lincoln we went
to Sandy Pond shore for a
short stay. Found one or two
mosses. *Plagio. laticornis*.

Hypnum riparium + *triquetrum*
Dicelasma pallens.

Listia graciliscens in my herb.

Dicranum montanum

Hyp. Schreberi with very light col. stems.

Then walked to Baker Bridge
station + took 4.10 train back.

W.F. had to leave us on RR + go
back for missing bag wh. he found
in the Baker Bridge station

very fine day at last
this. better feeling at Lexington
is early morning

May 4.

By 10 o'clock train B & A via Framingham
with Walter Faxon & Outram Bangs
to Clinton where Mr John E. Hager
met us with wagonette & we
drove to his Ornithological Museum
in Lancaster & after admiring it
for an hour, to the Great Elm
in the valley meadow, which
is indeed a wonder. Then
to his house to lunch meeting
his wife & two daughters. He has
a beautiful library of Bird
Books & has Audubon's
original drawings of the Hermit
Thrush. Then we walked about
the grounds to see the culls &
the wild garden, which deer
had trampled upon last
night & Mr J. drove us to
the B. & O. train via Mass
Central at Clinton & we
came by the magnificent
dam being built for the
new water service & home
to Boston at 4.56.

1905

May 8.

With Dalton (one of the men) by the 8.29 train to Highland Lake in the town of Norfolk: arrived 8.55. Walked back by a short street & then West St towards the Big Swamp: near the corner of West Cedar Sts on large elm some mosses, particularly a Minium grower some 8 or 10 feet fr. ground: I reached it by standing on the wall: a Tree Swallow flew out of hole on street side of tree up say 15 ft. We turned into 7th lane or bars on N. side of Cedar St, but this well used wood road ended at two houses, the larger occupied & probably owned by a deaf old Carver whose hired man with whom we talked before his "boss" came forth the house was an intelligent good looking Mass. young man: it seemed to me the positions ought to have been reversed: when past the houses we started west places of usually came out again on Cedar St & remained there till almost to State Road when we cut across corner to a one cold brook small but cold

142 142
connects the swamps on the South
side of Cedar St. I got a very
sharp pointed Sphagnum from
pool on North side & water
hyacinth for flowers in the brook.
Along the State road with few
attempts to enter swamps.
On Cedar St side not far from the
two houses mentioned saw
one spec. *Taxus Canadensis*,
& collected *Laurus ciliata*
in the dry woods. Near the
State Road in swamps were
Coptis trifolia in flower &
Chiogenes hispidula.

On dry ground North side Swamp
Oryzopsis asperifolia

We lunched at Pochick Spring
a new place to me & taking
the road that led from it
came at at A M Brown's
(a Real Estate Man) place
on the State Road opp. Oak St.
Then thro Oak St, where is
a park with old willows
abt it, I got *Dicelyma*
& *Hyphnoid* & in another
small pool a curious floating
mass of *Hyphnoid*.

Thence to Malpole + Electric to East
Malpole wh. connected directly
with a Dudley St. El. via Norwood
We got 3.10 at Norwood for Readville
Viola pedata in full bloom.
Prunus Pennsylv. the small size in
the swamp.

Aralia trifolia

Hypnum riparium sterile floating
in masses in pool on Oak St.
compared with the fertile I got
at Sandy Pond Lincoln.

Dicbelymia capillaceum on
roots of a big willow at larger
pond on Oak St. fruiting
Leskea obscura on same tree.

Thilia hirtella, new bright green.

Hypnum riparium that other time!
Dark green floating mass on
smaller pool on Oak St. is
also a *riparium* with shorter
leaves.

Dicranum flagellare on cedar
trees, very small plants, but some
of them have flagellae.

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Webera lescuriana "flagellate"
on the bank by the spring
where we lunched. my notes
with my Herb spec.

Bryum capillare on same bank.

Bartramia pomiformis.

Brachythecium salebrosum

Plagiothecium latebriola

{ Fontinalis

{ Dichelyma { Hyp. pluitans forma, vide
Farlow's letter with spec. in
Herbarium. The rooting
leaves he does not remark upon.

both from cold brook crossing
Cedar St Walpole Mass
sent some Dichelyma (it has the
rooting leaves) to Farlow

Dicranum ~~palustre~~

Sphagnum subsecundum

" acutifolium

"

at brook on Cedar St but app. not
robust enough for var. Torreyanum.

Pteris palmata

Willoughby, Vt. May 15. 1905.

Left Boston 10 a.m. Met Bertha on time & drove in cloudy weather. After all day rain here to the house. Saw Hermit Thrush on the way.

May 16

To the Snows before breakfast. Temp. in the Spring 44° mid of another small spring by pasture fence Temp 40°!

Got several mooses but did not catch any *Equisetum pratense*.

after breakfast with Will to 1st slide & got flowery *Saxifraga oppositifolia*, but it would have been better a few days ago. One piece of ice not yet fallen fr. cliff south of 1st slide: Will says it is always late there & that the ice falls first at the North end of Cliffs & moves on Southward: a large piece of ice at base of Cliffs at 1st slide: one *Primula mistassinica* in flower. *Viola pubescens* & *Deutaria*, *Claytonia Caroliniana* & *Myadalis*, *Diцентра* *Cucullaria* in flower.

On coming down I went along the Lake road to Echo Rock & got various mooses: it seems like a good year for them and everything looks fresh compared with lower.

Petaiotes palmata
Lonicera caerulea

Plagiothecium selvaticum
Cynodontium (verus?) with long setae
Barbula

Weisia

Gymnostomum (superbe)

Neckera pennata fr. on Rock

Cladonia on boulder

Eucalypta - (high up side)

Microdon attenuatus, very fine
 growing on a large boulder, I
 put up 40 packets of good
 fruiting specimens -

In wet pasture before breakfast

Hypnum revolutum!

+ on log by lake roadside *Thuidium recurgens*?

Temperature of the House Spring 43°

1905

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May 17 Wednesday: no rain today but threatening until 5.40 when it cleared off & gave us 20 min. of sunshine; the sun going down behind Mt. Nor. at 6 o'clock: it was sad gazing at the sky & cliff; with the burnt ruins beside me & the thought present with me of the many now gone who had enjoyed summers in that house for the past 60 years.

I went to the corner of the field this morning & got what I suppose is *Agrostis peruviana*, the male fls. & then along to the woods to Snuggle brook. Beautiful *Viola pedunculata* & *rotundifolia* & two sorts of a wood *V. blanda*: one hairy & the other very smooth & leaves flat looking like *rotundifolia*: also *Mimulus punctatus* & a hecker looking one clinging to crack in under side of Big Boulder with *Anemone* & a long braked *Mimulus* in the opposite sort. In Snuggle Spring also *Euphorbia resinosa* as I suppose from its leaves serrulate all round. *Ribes rubrum* evidently wild in the wet pasture & two *Antennaria* in the dry hills of the pasture.

Temperature of the House Spring 43° —

PM I took race fern plants & then
 walked Smiths down the road found
 fine (from its dark red peristomes, *Grimmia*
spocapa: also, a lateral fruited
Fissidens ^{most like subbasilaris acc to the Book}

Dietschella heterocaula

Hemalia like

Hermit & Milton Thrush & Rosebreasted
 Grosbeak by the roadside.

Anomodon obtusifolius creeping in crevice
 hanging on under side rock.

fine Hepatics two sorts and another with
 a Hypnoid areolation at base leaf wh.
 may be a moss, perhaps *Neckera*
complanata.

1905

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May 18. various showers today and sunshine for 10 minutes at abt 2 o'clock.

Remained at home all the am working on Mosses & putting them in packets. After dinner down the path to the Lake river attracted by the

Orthotrichum on a yellow birch so began to collect and filled two bags when the rain made me seek shelter under my umbrella arranged as a roof between a fir and spruce tree. I was up in a

yellow birch when I first saw the shower over the lake & the view across the sky to the cliff was fine. A snow bank 30 ft x 10 ft and 5 or 6 feet deep at lower end of path & other smaller ones near by. The sun came out for a few moments & I partly dried my umbrella in its rays falling on a mossy bank. Tree mosses & hepatics looked wonderfully fresh after the rain. I walked to the Picnic House & then home by the road. Gathered a *Hylocomium* under Cherry's flower trees by roadside. I made out an *Umbroscum* after considerable study of it. More rain later in the afternoon.

May 19.

A sunny day at last: much wind especially in PM & thermometer at 6.30 was 42° — But the sky & clouds have been March like in beauty. I worked on the Neckera this AM making it *N. complanata* which thus far I do not think has been recorded in Vermont. Then I walked down the road to Neckera Rock as I call it & found some more: Temperature at the Spring a little under 42° , then colder than the Suggle. Came home with much *complanata* which I dried on sheets. It is a fine golden color when not growing in moss. It creeps by its threadlike fibrous rootstock along the face of the rock & where the crevice is large enough to have several lines of plants they can all be separated to these thread-like single ones with branches about 1-3 cm long according to the vigor of the plant. I noticed the moss dried very quickly in the air & was then very brittle, so it may easily dry up & be broken off or fall away from sight.

In the afternoon I went in search of more & found another large broken rock in same place with plenty of it clinging to the Swiss face of the rock and it appeared to me as if the sun & wind of even this one afternoon had made a difference in the moisture of the plant. Where it was protected by shade & leaves it was much greener & moister than when in the liney face of the rock. I searched other rocks and found more & finally even on the earth on rocks & extending to the root of a tree on the rock, so I made up my mind it must have been here before and escaped the watchful eyes of the Fajons by drying up in the summer time. and I am anxious to test my theory. I followed the wire fence back to Marl Pond & beyond. Found a large plant of *Orthotrichum* in plenty on one dead maple, also a clustered capsule *Dicranum* one or two young *Hypnum* & also *H. scorpioides* of prob. *x Richardsonii*. *Rhodora* not in blossom, but collected σ & ϕ *Myrica Gale*,

a fine delicate *Amelanchier* &
Epigaea repens, the largest and
 finest I ever saw. Some of it very red.
 On the wood road thro swamp
 a very large hare (I never saw one
 anywhere near so long & lanky)
 gave me a very good chance to
 see him & seemed in no hurry to
 go on, tho the hounds with me
 had been making the swamp noisy
 for an hour or more. I filled my
 box moss full & came back, with
 joy that I was allowed by fate
 to spend such a happy day.

- Acetosa complanata*
- Dicranum fuscescens*
- " Not in fruit
- Grimmia apocarpa* Long plant.
- Thuidium* ? *delicatulum*
- Orthotrichum speciosum*

- "
- Leucodon scurovorderi* gemmate
- Dicranum fulvum*
- Hylocomium Schreberi* fruiting
- Mnium* ? *Drummondii*
- Amblystegium riparium* in a dark
 small pool below Mill Pond: with
 it also a sterile moss wh. may be
palustre or
cordifolium

a rigid Mamm. not yet ex
 + a *Callitriche* with curiously veined
 leaves and a straight-spious pubescence
 on the back, rather than stellate.

Rhynchosetrum — in mat on
 the big yellow birch root by the new
 lumber wood road in the Swamp.

Hypnum aduncum or *revolutum* in
 Marl Pond.

Saturday
 May 20th

A snow squall this morning
 at 7 o'clock + cold rain + showers
 all day. Ther. at 7.30 36° and
 about $42-44$ all day. Have
 been in all day, putting up more
 neckera + working on yesterday's
 mosses as per the list.

At 5 walked to the Lake but
 hurried back in rain. Took
 from a tree what I call
Hypnum reptile but did
 not examine it.

1905

May 21. Sunday: Early to the Cheney place & found *Neckera complanata* on the big boulders by the brook. This makes me more & more think it must escape summer observation by drying up, or even breaking off the rock & falling to pieces in its limy bedding. After breakfast with Dad to the Bishop's farm for the *Crataegus*: it was not at all out but I brought home a couple of branches to place in water. Back to the school No. corner & noted the warblers in the little glen at the corner: the day was then sunny but breezy & the birds sought shelter in the glade. The Magnolia & chestnut sided warbler were plenty and best of all a white crowned sparrow.

Coming home we found excitement from the visit of an unknown bird to the grassy lawn in front of the house, and that Will had brought back from the Lake shore road a dead Scarlet Tanager with his skull emptied of its contents by some bird or animal. They all said the bird on the lawn was never seen here before being all

over of a very red with no black at all on it. Mrs R. Hutter Charles (who came into the house to call the ladies to the window to see the unknown bird) all agree as to its color & novelty. Max could hardly believe it to be the Summer Red bird up here, but it looks like it —

PM the cloudy & windy we went to the Golf field & pasture above but birds were not to be found. Evening Mrs R told us something of her farm: she has between 600 to 700 acres. it follows the Sutton Town line from the Bishop's farm place on West side Sutton School to cor. Road and then in a line down to Cold Brook corner (the not as far as to the brook & then from the ^{land} spruce grove near gate (my Taylor's Grove) in a straight line over the top of the mt, taking in Pulpit Rock & going some distance beyond the top & then back to the or by the wire fence — that finally ends in the road over Ha Ha Spring brook. A separate piece is the Big field and

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another separate piece is the Picnic
No piece at the Lake of an acre
or two. The beach at this
end of the Lake is a public landing
for 30 Rods and cannot be enclosed.
Plagiothecium Muellerianum
on the Cherry Place at foot
of juney rocks on which grows
the *Neckera complanata*.

Charles Marker has been at work for Mrs.
Richardson since 1900 He knows
G. H. Mann of
Waterville Vermont
who made the short, thick
Carving knife
Mrs R. has just given me.

May 22. This has been a Bird Day and I never knew before how much it means to come up here before the leaves are ^{on} the trees and watch for the arrival of warblers.

I went down to School House corner - in the swamp there had five new of the Parula Warbler (I call him my little Blue Jay) also the Nashville. I found in swamp

A fls of *Dicranum* (? *flagellare*) with so large it almost seemed like a capsule buried in the long subulate cusped leaves. I almost thought it a possible *Placidium*. *Climacium* in fruit
Fissidens " "

Large *Mnium* " "
Hypnum " " and an odd looking *Orthotrichum speciosum*.

Charles told us at noon that yesterday's strange bird had been within sight of him, all the morning while he sowed oats. So we three (Ha Mad & I) went out toward the Cherry Ho & saw the bird at the edge of the grass land and it was a Scarlet Tanager, but HWH & Mrs R.

say yesterday's bird had no black at all on it. While Charles, tho he saw no black on yesterday's bird says his Today's Scarlet Tanager is the same bird he saw yesterday. He also reported today the first English Sparrow ever heard of in Willoughby, but this evening he tells me that his one English sparrow was in company with the Scarlet Tanager, so it is probably his sober clad mate.

Coming in the house I arranged my mosses till 4 o'clock - & then out on the Pasture Ridge where in the larches & cedars by Little Pond Bog we saw two birds feeding in the Larches which I noted as Two

Big chickadees and also with them a third very brilliant wh. I noted as follows:

"Same with yellow & black on head and yellow throat spreading to buff: almost as large as a Robin but chunkier; they fed sometimes hanging head down."

my Field Glass may have magnified their size too much.

In Little Pond Bag two of the Sandpeeps of former years were feeding by wading along shore & putting their heads under water every now & then. One remained standing on log very quiet for some time & I made the fall notes.

"white ring around eye. Greenish-yellow legs, say 3 inches long.

Dark brown curving line along outer edge of wing. very white spot under tip of tail. Hind wing short & apparently not reaching ground. Upper parts mottled light brown. under parts soft pearl grey & feathers on his body at thighs ruffle in the wind. Looks like a fat robin for size, tho short tail and longer legs.

There is a Robin's nest in the broken down chimney of the ruins of the burnt hotel abt 4 ft fr ground with three fat featherless young. also a Blue Birds nest in a hole in an old birch tree near the pasture entrance: the male & female were both near the tree.

May 23

very cold morning: ice on the grass by the overflow of the water pipe + a heavy North wind all day: the lake has looked blue & cold, with breakers on the beach. Ma & I walked to Roaring Brook: Temp of the Brook 40°. Collected a good many mosses; one bunch of soil with *Eucalypta* in it is plenty for that moss. No birds of any moment; the high wind not favoring them. Got *Heckera oligocarpa*? from under & dark side of a boulder with a bright brownish red capsule diff. from the ordinary form.

PM. To the sugarhouse woods behind
the Hotel & beginning of Mt. Path:
Several tree track moose &
I was surprised to see how much
they seem to have dried up:
more sun seems to shine there
but some fish is due to the leaves
still not out, & so the woods
lighter.

Desman longifolia

"

Pylæa
lypæa

"

Thuidium
acrostichum

watched a pair of Purple Linnet
feeding on the young larch trees.
Saw the Black-chickadee bird
yesterday, but only for a hasty
look: he is abt the size of the
linnet & was on the same larch
for a moment. Temp of the Sugar-
House Spring 42° : this spring moves
up the hill as the summer advances
& finally gives up its life in a ~~stagnant~~
wet spot by the yellow *Cypripedium*.

1905

24 May. a very beautiful day, tho a bright
white frost over everything early this
morning. Will & I to the top of the mt.
leaving directly after breakfast;
the *Crataegus* on top not at all
out, but I cut some & have put
in water. The top & the little
glades there were carpeted with
Spring Beauty, Dog Tooth Violet
& *Sanguinaria*; I collected
several mosses off the trees:
To North Outlook & then took
the new path down to Roaring
Brook: the lumbering of winter
before last has wholly changed
the look of the Forest & I was
much disappointed: we lost
the path in the broken timber
& brush, but finally came to
the road close to and south of
Roaring Brook & then to a 12.30
dinner. P.M. with Kar & Ad.
to the lake shore. Katie's first
walk to lake; heard Hermit
Wood Thrush & watched
the beauty of tree & sky.

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Hypnum on rock by Palpib Rock
" on log under the
spruces at path to Spring.

" on Crataegus
Pylaisia " "

Orphot " "

Hylacomium on ground of
north side mt.

Hypnum " " " " rocks
" " " " trees.

Polytrichum " " "
Deschampsia sul " "

1905

25 May

AM. with KWK & Mad to Echo Rock:

Hypnum serrulatum ?

PM with Will R to the Scorpoides
Bog & while he fished & got some
15 small trout I collected mosses.

Fissidens

"

"

Deschampsia

"

Hypnum Scorpoides

"

"

"

Was rather surprised at finding so little
or no sphagnum where we were.
Lonicera caerulea in fine flower.

Callitriche montana in flower

1905

169

26 May. Ma & I went home 8.05 train & Mrs. R.
H. & I drove her to West Burke: Day
fine in forenoon: we came home
slowly by 10 o'clock. I got Atrichum
undulatum on Brook path: sudden
dark clouds before our 12 M. Dinner
& hard rain in p.m. I worked
a little arranging yesterdays mosses.

Saw first King Bird today

" " Golden winged Woodpecker

" " Hill R. says "The juncos have come
back" when I supposed they staid
here (some of them) all winter, but
he says no.

wonderful yellow hazy sunset in the
midst of rain. I stood under
umbrella & watched the sky and
cliff.

120 1905

27 May

morning doubtfully clearing but afterwards
day very fine. To Cold Brook
path: Temp of all the Springs &
brooks the same, i.e. 45° - Got a lot
of fruiting

Hypnum *auratum*
enough to send Grant 55 - Cold
In the cold rocks above ~~Pearcy~~ Cold
Brook

Thamnium
growing on wet face rock &
Neckera

or some other possible *Thamnium*.
Came home with several mosses
that I worked up in P.M.

1905-

28 May - Saturday: very fine day.
 tracked to Crabapple on Bishop farm
 but it was not any way out.

Back thro Golf pasture & found a
 few ~~birds~~
 watched for some time

3 Humming Birds on the Canada
 Plum trees, feeding & resting on
 the branches; they often stopped
 while feeding to rub their bills on
 the branches.

Mr. E. C. Simpson West Burke of
 living forest house south of
 Dr. Chien's fish pond and on
 opposite side of road brought me 2
Calypso borealis found in

the Swamp just back of his house.
 they were in prime condition.

Temp. of brook at farther side of the
 Golf pasture 50° being thus warmer
 than those nearer the house.

1905

Left Wellingbury

29 May

Monday, at 7 am + to West B
Train 8.10 Boston 4.30. met Miss Shaw
of Fall River who with a friend had
been two weeks at Lafayette House
Franconia observing birds.

1905

1735

arr. Wlloughby

June 5 at 4.45 for Boston at 10 am
 Dr & Mrs Broughton came on same
 train, they going to Alaska.
 We talked of the Japanese
 celebration last Saturday.
 Hattie & I were met by Will
 & reached house at 6.20 with
 our trunks & load of fresh vegetable
 & fruit from Dockes.

Lonclair also had given us
 some living soft shelled crabs.
 Evening warm & pleasant &
 I packed back & forth to
 Snuggle till 8.30 —

June 6. Tuesday.

packed up the mt in forenoon:
 everything fresh from the names
 last night. The Crabapples no
 where near out & blossoms
 appeared to be very few in number.
 Took one bunch to let bloom
 in water here. Brought a few
 mosses for the path & have crabs
 left now with me. have been
 very to this pm.

Frederick's Enstaten Mils
Catharinea argentata ♂ & ♀

Brachythecium Salebrosum
or " acutum
Pogonatum alpinum on the path
Anemodora &c
Hypericum —

also a Morchella — very much
corrugated & irregular in its
adhesion to the slope, app.
extending in many ways.

I left my waistcoat on a
post of the wire fence on account
of the warmth & when I
returned it was gone.

Charles & I have investigated
this pm and it is evident
some one had been mending
fence & had lifted it.

Not Back Jan 8
Mr. Brown Dear Sir
Charles Brewster
found the bird and
thought some one
had it and brought
it home, so I put it
out on a cage with
and let it fly over
the fence and
the bird was
seen flying
over the
fence



Willoughby Lake House

VERMONT.



N. R. RICHARDSON, PROPRIETOR.

F. W. RICHARDSON, CLERK.

6 June 1905.

Mr. Ira Humphrey:

West Burke Vt. Dear Sir:
Today while botanizing on the
mountain I hung my vest on
a post of the wire ^{fence} dividing your
property from Mrs. Richardson's.
When I returned ~~the~~ ^{two} hours later
the vest was gone with valuables
in the pocket which are of
importance to me as being gifts.
I am told by the neighbors that
you & your man were at
work there today mending the fence
and I trust you will see that
the vest is returned intact to me
at once.

Yrs truly Geo G Kennedy

June 7 Metheun: cool bright day till 2 PM
when it clouded over + a cold
rain set in at 6.30.

Am I walked to Bishop's Garden
+ got one only fl. spec of the
Cystopteris; brought home a
small branch. the tree will be in
full flower by the end of the week.
This one flower had anthers of a pale
pink color, streaked + tinged
with white, looking under my
lens like a minute *Cypripedium*
acaulis. 5 good stamens
2 sterile + stamens and
one stamen made up of two
adunate stamens + anthers.
also 5 equal styles.

Came back to the Brook
running up into the pasture
directly behind the Bishop house
+ I found a shady bank where
grew

Bartramia Oederi
Fissidens (prob) *cristatus*
Mollia tortuosa in fruit
Bryum pallens, only 3 or 4
plants in the cold gravel of
the water ridge.

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Hypnum hesperidulum

at the meadow near Rockwell house.

" *chrysophyllum* not far above
this point:

and getting into what remains
of the once beautiful Western Swamp,

Listera cordata

Mitella nuda

+

Hypnum splendens

Thuidium or *Hylacomium*

" *Trichocolea* as I suppose.

At dinner here were

Mr Watson of Sutton corners,

Mr Reagles who has cottage

at Cold Brook & from being

a West Burke Druggist is now

President of Bank in

Lyndonville

a young man for the Bank.

They all went fishing in Lake in P.M.

Hattie & I walked to the Picnic

House betw 4 & 6, but no birds

sang in the cold dark air.

on Rock collected

Hypnum populeum

1905

8 June. Every spruce tree on Mt Nor
looked like veritable Xmas
tree this morning at 7. For
they were all loaded with
fresh white snow.

The men have been setting Telephone
poles near Mrs R's house to
avoid the trees in the highway
and I have been talking with them
particularly with one

Sylvan Walker
of West Burke a Sincere
farmer & a very interesting
out door man: his sister
teaches in a college in Penn
she would be a good woman
to go with abt this northern
Vt region as he knows the
country well. Near Island Pond
& St Johnsbury.

Drops of water clinging in the open work
cup made by the fascicle of young
larch leaves have surprised me
this morning by their diamond like
beauty & by the fact that I
never before noticed them. The
least jarring dispersed them,
but they were shining in the

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slight sunshine when I left them
as if waiting to be absorbed by
his rays. One single pellicle
of water is minute, but these
larger pellicles, up to at least
five millimeters wide, filled the
lower part of the uncertain cup,
perhaps held in place by a thin
coating of the oils of the young
+ growing surfaces.

Epigaea repens in good flower
this morning — another proof
of the cold weather up here.
growing of course on the cold
side of a cold hill in cold swamp.

I have been walking about the Little
Pond Bog:

Hyp. mucinatum var

Scleranthus furcatus a very
large fine var. sterile

Pyrum Duvallii

Hyp. Blandovii

Mimulus Drummondii, in
the deep grass of the wet
meadows by the *Blandovii*

+ *M. hymenophylloides*
also the very large
Fragaria virginiana

at the further outlet of the pond.
and a very acute operculated
Hylocomium
wh' were it not for that I
should at once call *Umbrosum*
a *Thuidium*

also in the wet grass, ^{may}
down under the grass, ^{that}
makes me think I don't
know any *Thuidium*.

Pm Hattie & I walked to the
Lake.

very heavy dew on the grass
immediately after sunset.

1905

June 9 Friday. To the Bishop farm in am
& collected *Crataegus* flowers.
Coming back followed the Brook
down to the Swamp at Four
Bridges: in brook
Fontinalis Lescurei
and in Swamp
Brachythecium Nova Anglie
Hypnum
Bryum proliferum
Barbula
on trees
Mnium cuspidatum
and under big boulders on Road
Plagio silvaticum.

Remained at home in p.m.
Day has been very bright & fair
the morning coldness giving
way to a rather cool forenoon

10 June Saturday

Three ladies for Lynn came last evening: they are all "after plants" & today I went with them in and about the wet meadow & of Cherry House round by the crater, comes to Snagles & then to the Little Pond Ridge & home. Equisetum in the Cherry corner as good as ever. & yellow Cyperpedium in the wet meadow. From me all to the top of the Mt. The Crataegus now near blossom than last Tuesday. but at North outlook got good Sax. fraga Arizona & Draba. Afternoon misty & rain set in when we got home. Much beauty & mystery in the view of the Lake for Pulpit Rock & the North outlook.

Mrs Maratta whose husband was 5 years consul general at Melbourne Australia and ~~and~~ Dr. Mueller died while they were there: they knew him well.

above

Mrs ~~Boyd~~ born at Biddford
who visited Fortunes Rock
a great deal when younger

Mrs. Boynton -

" Frank Parker above
195 Ocean St Lynn
Tel 531.5.

Mrs D. W. Maratta
14 Ocean St Lynn
father is
N. Brewer
Tel. 1017.2.

1905

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11 June Sunday Rained hard all day
did not go out.

12 June Monday.

No rain today but cloudy &
towards evening very warm
& mosquitoery.

Waked with the ladies to
Roaring Brook, very full of
water: found a junco's nest
with four eggs by the Lake
Roadside. Coming back
went up 4th July slide:

Sax. spp. in fruit

Pumila in flower

Sax. argodes in neither flower
nor fruit, just the plant.

Astragalus Blakei in flower

Saw no Hedysarum.

Carex scirpoides

Scirpus capillacea.

Potentilla fruticosa not in flower
not much there

Asteriscus young not much.

No fruiting mosses, brown, at

back some sterile net

Ayrum, Mamm

prob. Gymnostomum curvirostrum

also *Viola venusta* in the
cold brook.

Celastrus scandens a short
way up the slide:

Rhus Toxicodendron in full
flower:

many fresh young oaks
of fine flowering *Juglans cinerea*.

Got home to a two o'clock dinner
& then took them to the Bog
& woods about Marl Pond.

The great find was five plants
of *Calypso* above Marl Pond
near the wire fence.

Mithella nuda &

Lestera cordata.

Took them also into the
Rhodora place on the
road side of Marl Pond.

1905 1915

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13 June Tuesday:

To Cold Brook path thro the
Cheney wood with the ladies.
Large specimens of the
Morchella that I have
before found with the
corrugated extended-in-folds
cap.

They went home by the
1.47 train after a 12 M
dinner.

PM It thundered & threatened
rain which came in the
evening. I across to Little
Pond from the house
over field, meadow &
ridge.

Dicranum flagellare on stone
" *congestum* "
" *fuscens* on rock
and a rock mixed with other
Hypna what I call
Brachythelium Thibellii.

it appears to answer the L & L
Description.

14 June Wednesday.
 In field back of house towards
 Cheney's at Brook
Carex scabrata &
 perhaps with *flava*
 collected also
Equisetum pratense
 & in the Cheney place
 along their house supply
 Brook various
Mnium which I
 have not named.
 a fruiting *Thuidium* &
 a *Plerogium* fruiting,
Bryum — a common one
 & several *Hypnum*.

P M Took car to the above &
 before Tea to Pasture Ridge
 but saw no birds.
 Day the warmest yet.

15 June

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Bryum microstegium

appears to answer for my yesterday's
moss on the Cheney place

There are two things perfectly
Satisfactory here ^{very}
The Heavens + The Earth.

15 June 1905

Thursday. A warmer day than we have yet had.

went to Top of the Mt. in AM but the *Crataegus* evidently will not blossom for a week.

A big Beech had fallen & I collected some mosses that otherwise would have been beyond my reach.

As usual started two or three partridges. Collected a fungus not a *Polyporus*.

PM packing to go home tomorrow.

16 June 1905

Friday

Left Willoughby at
7 am: arr Boston 4.30
a fine morning drive followed
by a warm day.

1905

June 28. Mosses from Laggan &c
from
Dr A. H. Broughton.

1905
July

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4. *Solidago*.

traveled up Blue Hill at 5
A.M. & back at 7. Signs of
being a very warm day.

Found ripe *Vaccinium Pennsylv.*
& also *Solidago juncea*
in bloom near the wet boggy
place on top.

Webera

on the path coming down.

July 11. To West Rutherford N. H. with record to
call on ship Woodward.
on the RR tracks near Station
Thlaspi arvense L.
Cornelina sativa Coarct.
two northern things as I have
gathered them.

West Lebanon NH

Oct 27. 1905. Now I went to Montreal on
 Tuesday, Oct 24 & came back to
 Alden Hall yesterday pm.

Today brought home a moss
 fr. the old wall on roadside opp
 Alden Hall which I suppose
 to be Entodon & it looks flat
 & smooth shiny like to "Cladorrhiza"
 I gathered on wet rocks by edge
 of brook beyond Harris Clark in
 Canton, on April 14 last.

1905 Oct 29 Sunday Crossmans.

walked with SK & MK to Crossman's Lane
 by the old road to Hillside & home
 by Forest St, Doe Hollow & East's Hall
 In Crossman's brook near old C. house
 got an hepatic growing on & clinging to
 small gravel & stones & always submerged.
 Tried to name it fr. Pearson. But
 hepatics & called it

1 *Chiloscyphus polyanthus*
 var. *rotundus*

or
 2 *Jugermannia repens*

Oct 30, 1905. To Winchester to call on Florence Brown see Kenneth but they not at home & I walked by 'the Mystic Parkway' to West Medford. Beautiful fall day. very fine white pine on bank betw. Mystic Pond RR with 7 main & ascending branches, thus making a very noble & unusual tree.

Bradford Torrey.

Nov 1. A dull morning with fine fog in PM & cold wind by 7 PM. Took 9.32 train with Chas E. Faxon for Wellesley Farms where Bradford Torrey met us. We walked Glen St. thro the big Deane Estate by his private road & to Wellesley St. to Brown St. & by school house corner to South ave & beyond. Fine St. ate our lunch on the roadside & back by pretty much the same way with some woods near the station & took the 3.53 train home. Saw almost no birds & almost no people.

1905

Nov 8. Wednesday Bradford Torrey.

Took 9.15 with C. E. Faxon for
Newton Lower Falls where B. T.
met us & we walked back
MRR across Char River Bridge
& up front street to left & so under
the B. T. A. R. & by Leavenworth
Brook lanes (a wild pretty place)
to the road by the new Bridge
leading to Notumbega Park
on wh. we stood some time
admiring the reflections in
the dark water under a
sunless sky & then by wood
paths & side hills to top
of Doublet Hill marked by the
two or three pines wh. can
be seen fr. long distances,
then down towards Mt.
Deaver high water tower
taking our lunch by the
side of a pasture meadow
wh. there not being any sunshine
was rather cool & made
B. T. go off in a discussion
of his admiration for Desert
Scenery as wht. there was
anywhere where he was
last year.

From the water tank tower which
 we ascended for the view we
 came by road & woods to
 Mr Wright's place where the
 lay out of the place is fine,
 & the big oak by the edge
 of the wood, revealed by Mr
 Wright cutting still finer &
 then to B.T.'s house close
 to the open aqueduct & so
 down to the N.L.F. station
 for the 3.12 train.

On our way to Doubled Hill
 for November a bridge on walk
 for the Gate House along the
 top of the new aqueduct for
 abt half a mile, & a very
 beautiful walk it was with
 the brown & yellow woods
 on our right.

1905

Brampton.

Nov 15. With Ad Hodge, C. E. Faxon & Mr. Eckhoff by the 9.17 train to Brampton & to the Faxon old house in a meadowed farm towards Millard & it is the western part of the town tho not far from the station. Enroute we stopped some minutes in the ancient burying ground. I took several photos of the house & lane. The morning was cold & windy: Ther 20° when we left Boston. & the day gradually got less sunny tho warmer & was 40° by 4 P.M. We visited an old disused quarry of red granite & then came thro woods paths & by a fine ice pond on the dammed up brook & so to Dr. Symonds trout pond & across country to the old Purgatory Cave on the East side of Blue Hill River. Followed that to Brampton Great Pond & then by bridge over the river into the

Reservations by good road to
the Park Place - up side of
Sawney. Mt. 500 ft. - other
Mount No. 1100 ft. Mt
highest pt on the road under the stric
at Huntington: 2 on pt. stage - same - we
the village 1200 ft above sea - and
Table Rock is 2000 ft up. views
the summit the 2 peaks - a main-
taken a mean less 2 peaks - ed
take boarder? house

Miss Tiske at the Summit No

Miss Kate Hawley at Mt. Tamm H
Miss Cleghorn there nice
in the village. Miss Day kept
them. Mr. C. is to call to
find the better house or
good riding place. Miss C. said
to be at Rockcliffe

July 3 1883
The 91st & 100th Road from Ben
+ 1000 and have
Huntington street apt 11 1881
Huntington, N.Y.

Reservoir by good road to
 to Park Place + up side of
 Chickatawbut + down the other
 side to Reservoir Road + so
 to Randolph Ave + Electric
 cars to Mattapan where we
 parked. They to Boston +
 by electric home.

Saw a flock of tree sparrows
 over by the ice pond in Main-
 tree. The ice moved
 bear me on the edge of one
 little pond.

1905

Newbury —

Nov 23

went with A. D. Hodges by 9 o'clock train to Newburyport & walked about the town. Saw statue of W. L. Garrison & Washington. The Public Library founded in 1855 & occupied a fine old Colonial mansion in 1865 walked to Parker St via the Frog Pond Cemetery & saw stump of the big elm that H. F. Gould celebrated in her poem. It blew down a few years ago. Took electric cars to bridge at old Newbury over Parker River had lunch on the shore. Took photos of the shore & of the memorial to the Early settlers: we had to leave at 2.20 the most beautiful hour of a most beautiful day, a very perfect Indian Summer day. To catch the 2.54 train back to Boston.

We shall go again for a longer day.

The pale colored sparrow I saw in old cultivated field near Parker River Mr. Walter Foxon thinks was an Ipswich sparrow.

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It flew from the ground abt.
30 ft in advance, rose, & went off
quite a distance say 300 feet
before alighting: it had an undulating
flight & was some larger than
a song sparrow & quite a
pale color.

NOVEMBER DRY AND SUNNY.

Month Was a Record-Breaker in Sunshine According to Blue Hill Observatory Records.

The records of the Blue Hill Observatory show that the past month was the sunniest November in more than 20 years. There were 174 hours of sunshine, the normal being 132 hours. The highest previously recorded was 153 hours in November, 1899. The average relative humidity this year and the cloudiness were also the lowest in 20 years. The rainfall was only half the usual amount, but there have been several dryer Novembers in recent years. For four successive Novembers the rainfall has been small. This year there was very little rain until the last few days of the month. The temperature averaged about one degree colder than normal.







